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A Guide for Equipping Industrial Arts Facilities.

American Industrial Arts Association, Washington, D.C. Equipment Guide Committee.

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Woodworking

A guide for planning new and revising existing industrial arts facilities which gives a listing of tools and equipment recommended for each of the major areas of instruction (automotive and power mechanics, ceramics, drafting, electronics, elementary, general shop, graphic arts, metalworking, plastics, and woodworking). General descriptions and specifications for tools and equipment are included in an alphabetically arranged master list. (FS)



ED02859

Guide for Equipping Industrial Arts Facilities

EF 002596

First Edition
American Industrial Arts Association

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BY Howard S. Ducker.

Amen. Ind. Arts. Asso.

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Guide for Equipping Industrial Arts Facilities

First Edition
prepared by
The Equipment Guide Committee
American Industrial Arts Association



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The members of the Equipment Standards Committee are grateful for the generous support that has made the <u>Guide for Equipping Industrial Arts Facilities</u> possible. They are especially indebted to the members of the Research Advisory Committee of Western Washington State College who contributed financial assistance and staff time to the project, to Denis Kigin and the Safety Committee of the American Industrial Arts Association who checked the data and made suggestions concerning the safety aspects of the information provided in this <u>Guide</u>, and to the following persons who served with diligence in the various stages of compilation: Dennis Frimml and Misses Mary Hamelin, Vivian Nieuwsma, and Donna Hamstra.

Sam R. Porter, Chairman
Equipment Standards Committee
American Industrial Arts Association

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FOREWORD

The American Industrial Arts Association holds that well-equipped facilities are essential in providing a substantial and modern program of industrial arts education. To assist in meeting this tenet, the AIAA Executive Board in 1964 made plans for the development of an equipment guide. President Walter C. Brown appointed Sam R. Porter to chair a committee that would gather information and prepare material concerning the equipping of industrial arts facilities and furnished directions for the selection of committee members.

Teachers, supervisors, and teacher educators having specialized knowledge and experience in selected areas of industrial arts and representing different regions of the United States and Canada were named by Committee Chairman Porter and approved by the AIAA Executive Board to serve on the Equipment Guide Committee.

Information presented in <u>Industrial Arts Education</u>: <u>Purposes, Program, Facilities</u>, and Instruction published by the American Council of Industrial Arts Supervisors and <u>Planning Industrial Arts Facilities</u> published by the American Council on Industrial Arts Teacher Education was used in selecting the areas of instruction and types of facilities to be covered in the equipment guide.

The Equipment Guide Committee met during the AIAA national conventions in Washington, D.C., in 1964 and in Tulsa in 1965 to make progress reports on the preparation of the material assigned to each Committee member. A final review of the material was made during the 1966 AIAA national convention in San Francisco. Upon completion of the manuscript, it was submitted to the AIAA Publications Committee for review.

Appreciation is expressed to the members of the Equipment Guide Committee for preparing the material for Guide for Equipping Industrial Arts Facilities; to members of the AIAA Publications Committee for reviewing the manuscript; and to AIAA presidents, Walter C. Brown, Robert S. Swanson, and Earl M. Weber, and members of the executive boards during this three-year period for assisting in the successful culmination of this project.

All persons who have responsibility for selecting and purchasing equipment should find Guide for Equipping Industrial Arts Facilities of great value.

Robert L. Woodward President, American Industrial Arts Association 1966-67



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INTRODUCTION

Purpose of the Guide:

The purposes of the Guide for Equipping Industrial Arts Facilities are listed as follows:

To provide a guide for school architects, administrators, planners, and industrial arts supervisors and teachers as they plan new and revise existing facilities.

To establish criteria for the evaluation of the conditions of a iocal facility.

To encourage teachers to improve their local programs.

To assist teachers and supervisors in writing specifications.

To lend the support of a national organization to local requests for equipment.

To provide stability to program requirements during personnel changes.

To serve as a unifying force in industrial arts throughout the United States and Canada.

Criteria for Selection of Equipment:

Using his past industrial and educational experience as the primary criteria for the selection of tools and equipment for inclusion, each committee member attempted to further recognize the following specific criteria:

Tools and equipment to be purchased should be those items which are basic to developing an understanding of industry and its processes and should be restricted to those mandated by the objectives of the course.

A trend toward more experimental and scientific equipment as a result of changes in curriculuar emphasis in this direction should be recognized.

In the school setting there is a necessity for high-quality single purpose tools and machines that require a minimum of maintenance.

In industrial arts education there should be an increasing use of lightweight, portable tools.

Tools and equipment should come from business concerns that have amply demonstrated the worth of their product and the availability of their services and parts.

Terminology and Objectives in Industrial Arts:

The terminology and objectives stated by the American Council of Industrial Arts Supervisors in their publication <u>Industrial Arts Education</u>: <u>Purposes, Programs, Facilities, Instruction</u> (American Industrial Arts Association, 1963) have been recognized by the Equipment Guide Committee as an acceptable guideline for this Guide.

The American Standards Association:

The American Standards Association (ASA) publishes standards for many of the tools, equipment, and processes used in industrial arts education. These standards are published in booklets, each devoted to a single item of equipment or process. A catalog listing the various publications and prices is available



from the American Standard Association, 10 East 40th Street, New York City, 10016. The Equipment Guide Committee strongly urges that ASA standards are consulted before purchasing or installing equipment. A listing of the American Standards for Safety is included in this Guide as an example.

A Word of Caution:

The Committee is cognizant of the possibility that this <u>Guide</u> may be misused. At a time when national attention is focused upon major curriculum studies and imminent reorganizations of program and methods, it would be unfortunate if this <u>Guide</u> were considered as the dictum of course organization, content, and procedure. All of the lists are presented as suggestions only; none is perfect. The organization of the material into ten major sections is for convenience only and should not be interpreted to constitute endorsement of any particular type of course organization or offering. Indeed, the Committee encourages curricular innovation and reorganization, but deems it unlikely that the fruits of such innovation will demand tools and equipment too different from those which are listed in the Guide.

Revision:

Because of the changing nature of industrial processes and products, and the changes reflected in industrial arts content and practice, the Committee recognizes a need for constant revision of this <u>Guide</u>. The reader is encouraged to assist in improving future editions of this <u>Guide</u> by submitting suggestions and comments. To facilitate this procedure, addressed postage-paid post cards are included at the end of the <u>Guide</u>; readers are encouraged to use them.

The Format of the Guide:

This volume is divided into two major divisions:

- 1. Equipment Items by Sections. A listing of the tools and equipment recommended for each of the major areas represented.
- 2. Equipment Specifications. A master list of the tools and equipment, with general descriptive specifications.



L EQUIPMENT ITEMS BY SECTIONS

Indone	Page
Index:	11
Auto and Power Mechanics	
Ceramics	
Drafting	26
Elementary	34
Matalmarking	
Plastics	
Woodworking	

How to Use the Equipment Lists:

It should be emphasized that the lists presented in each Section are provided as recommendations and should be considered open and flexible. They are suggested only as a guide. However, these list are a summary of the recommenations made by those selected for their experience and expertness in the area they represent.

Any selection of equipment and tools for inclusion in this <u>Guide</u> necessarily involves choices among alternatives. It is not intended that any one school should buy all of the items recommended, nor is this necessary. However, the purchase of all items in each list would assure the kind and amount of equipment sufficient to carry on basic processes within each area. Tools and equipment were omitted when their purchase seemed unreasonable or unwarranted within the industrial arts setting.

Each list contains the following information:

Section

- Level—Note that the traditional school grade level is avoided in this listing; introductory experiences are considered as basic regardless of the grade level at which they are offered.
- Subsection—Tools and equipment have been grouped according to their common use or association, and have been listed within subsection lists.
- Code—A cross-reference to the second division of the Guide.
- Item—The common name of the tool, machine, or furnishing.
- Number—The quantity recommended is for a class of approximately 24 students. Two Sections (Elementary and General Shop) have unique requirements; instructions for these Sections appear with their respective lists.



AUTO AND POWER MECHANICS

Introductory

Advanced

Code	Item N	Number	Code	Item Numb	æ
Code	item				
			0075	Automatic Transmission	1
		•	0120	Tool (set)	1
0120	Bar, Pry	1	0120	Bar, Pry Battery, Storage (6V)	1
)135	Battery, Storage (6V)	1	0135	Battery, Storage (12V)	1
0140	Battery, Storage (12V)		0140	Body-Fender Tools (set)	1
0395	Body-Fender Tools (s	et) 1	0395 0445	Brake Adjusting Tool	•
0445	Brake Adjusting Tool	•	U 44 3	(spoons) (set)	
	(spoons) (set)	1	0500	Brush, Wire	
0500	Brush, Wire	8	0500	Caliper, Hermaphrodite	
		•	0640	Caliper, Inside (6")	
0645	Caliper, Inside (6")	1	0645 0655	Caliper, Inside (6")	
0655	Caliper, Outside (6")	1	0655		
			0665	Caliper, Vernier Chical Cold (set)	
0780	Chisel, Cold (set)	. 4	0780		
0875	Clamp, "C" (4")	2	0875	Clamp, "C" (4") Clamp, "C" (6")	
0880	Clamp, "C" (6")	2	0880		
0885	Clamp, "C" (8")	2	0885	Clamp, "C" (8")	
0890	Clamp, "C" (10")	2	089Û	Clamp, "C" (10")	
0950	Cleaner, Ring groove	. 1	0950	Cleaner, Ring groove	
1030	Compressor, Piston r		1030	Compressor, Piston ring	
1035	Compressor, Valve sp		1035	Compressor, Valve spring	
108 5	Creeper	. 4	1085	Creeper	
1140	Cutter, Bolt	1	1140		
			1145	·	
			1195		
		_	1205		
1220	Cutter, Tubing	1	1220	Cutter, Tubing	
1250	Die, Letter (set)	1	1250	Die, Letter (set)	
1255	Die, Number (set)	1	1255	Die, Number (set)	
1295	Divider, Spring (6")	1	1295		
	,		1310	Dolly, Body (set)	
1320	Dresser, Abrasive wh		1320		
1350		1	1350		
1355	Drill, Hand (%")	1	1355		
1360	Drill Stand, Fractiona	al 1	1360	Drill Stand, Fractional	
1370	Drill, Twist (number	set) 1	1370	· · · · · · · · · · · · · · · · · · ·	
1375			1375	Drill, Twist, Straight shan	k
10,0	(fractional set)	2		(fractional set)	
1495		6	1495	Extension Cord	
1500			1500		
		-,	1540		
1540	Files (see specificati for set detail)	VII3	1940	for set detail)	
1224		6	1550		
1550	File Card and Brush	U	1000	. 110 00. 2 51.2 51.50.	

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1560	File, Contact point		1560	File, Contact point	•
	(ignition)	1		(ignition)	1
		_	1605	Flaring Tool (set)	1
1625	Flywheel holder	1	1625	Flywheel holder	1
1715	Gauge, Belt tension	1	1715	Gauge, Belt tension	1
	_	_	1720	Gauge, Carburetor (set)	1
1725	Gauge, Center	1	1725	Gauge, Center	1
1730	Gauge, Cylinder pressure	1	1730	Gauge, Cylinder pressure	1
1745	Gauge, Drill, Fractions	1	1745	Gauge, Drill, Fractions	1
1750	Gauge, Drill, Number	1	1750	Gauge, Drill, Number	2
1760	Gauge, Ignition (set)	2	1760 1800	Gauge, Ignition (set) Gauge, Screw pitch	2
4040	O Consultantum	2	1810	Gauge, Screw pitch Gauge, Spark plug	1 2 2 3 1
1810	Gauge, Spark plug	3 1	1815	Gauge, Spring tension	1
1815	Gauge, Spring tension	1	1820	Gauge, Surface	ī
1000	Course Thickness		1830	Gauge, Thickness	•
1830	Gauge, Thickness	8	1000	("feeler")	8
1025	("feeler") Gauge, Tire pressure	2	1835	Gauge, Tire pressure	2
1835 1845	Gauge, Vacuum and low	_	1845	Gauge, Vacuum and low	
1049	pressure	1	-0.0	pressure	1
1855	Gauge, Wire and sheet	•	1855	Gauge, Wire and sheet	
1033	metal (American)	1		metal (American)	1
1860	Gauge, Wire and sheet		1860	Gauge, Wire and sheet	
1000	metal (U.S.S.)	1		metal (U.S.S.)	1
1885	Gloves, Leather (pair)	2	1885	Gloves, Leather (pair)	2
1900	Goggles (spectacles),		1900	Goggles (spectacles),	
	Clear observation	6		Clear observation	6
1905	Goggles, Gas welding	4	1905	Goggles, Gas welding	4
1950	Grease Gun, Suction,		1950	Grease Gun, Suction,	_
	General purpose	1		General purpose	1
2020	Hammer, Ball peen		2020	Hammer, Ball peen	
	(4 oz.)	4		(4 oz.)	4
2025	Hanimer, Ball peen	_	2025	Hammer, Ball peen	A
	(8 oz.)	4		(8 oz.)	4
2035	Hammer, Ball peen		2035	Hammer, Ball peen	4
	(16 oz.)	4	2255	(16 oz.)	
2055	Hammer, Brass head	2	2055	Hammer, Brass head	1
			2060	Hammer, Chasing	2 1 · 2
		•	2065	Hammer, Chipping Hammer, Claw (16 oz.)	1
2085	Hammer, Claw (16 oz.)	1	2085 2090		•
2090	Hammer, Engineer's	2	2030	(40 oz.)	2
0105	(40 oz.)	2 2	2105	•	2 2
2105	Hammer, Lead	2	2125		1
012F	Hammer Soft face		2135		-
2135	Hammer, Soft face (8 oz.)	2	-100	(8 oz.)	2
2140	(8 02.) Helmet, Welding (hand	-	2140	Helmet, Welding (hand	
2140	type)	3		type)	3
2145		. •	2145	Helmet, Welding (arc)	
2143	(head type)	2		(head type)	2
2200	•	2 1	2200		1
2200	,	_		-	

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2540 2545 2620 2625 2630 2635 2835 2845 2845 2865 2870 2875 2890 2895 3065 3075 3080 3085 3090 3100	Mallet, Rawhide Mallet, Rubber Micrometer, Inside Micrometer, Outside (1") Micrometer, Outside (2") Micrometer, Outside (3") Nipper, End cutting Nozzle, Blow gun (air line) Oiler, Bench Oiler, Pump Oiler, Straight Oilstone, Combination, India Oilstone, Combination, Silicon carbide Packer, Wheel bearing Pliers, Battery Pliers, Brake Pliers, Chain Pliers, Combination (6") Pliers, Combination (8") Pliers, Diagonal cutting	2 2 1 1 1 1 1 1 1 6 6 6 2 2 1 2 2 1 8 6 2	2210 2540 2545 2620 2625 2635 2635 2640 2645 2845 2845 2865 2870 2875 2890 2895 3065 3075 3080 3085 3090 3100 3115	Indicator, Dial test Mallet, Rawhide Mallet, Rubber Micrometer, Inside Micrometer, Outside (1") Micrometer, Outside (2") Micrometer, Outside (3") Micrometer, Outside (4") Micrometer, Outside (5") Nipper, End cutting Nozzle, Blow gun (air line) Oiler, Bench Oiler, Pump Oiler, Straight Oilstone, Combination, India Oilstone, Combination, Silicon carbide Packer, Wheel bearing Pliers, Battery Pliers, Battery Pliers, Chain Pliers, Combination (6") Pliers, Combination (6") Pliers, Hose clamp,	1 2 2 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1
3120 3135 3140 3150 3175 3235 3390 3445 3455 3470 3500	Pliers, Waterpump Press, Arbor Puller Assembly Pump, Oil drum Punch, Center (set) Punch, Drift (set)	2 4 2 8 2 2 1 1	3120 3135 3140 3150 3170 3175 3235 3390 3395 3405 3410 3425 3420 3425 3430 3435 3455 3470 3500 3585	Pliers, Waterpump Press, Arbor Puller Assembly Puller Assembly (large) Puller, Axle Puller, Freeze plug Puller, Gear (set) Puller, Seal (set) Puller, Steering wheel Puller, Valve guide and valve Puller, Wheel (set) Pump, Oil drum Punch, Center (set) Punch, Drift (set) Punch, Pin (set) Reamer, Cylinder ridge	242822111111111111111111111111111111111
3610	Reels, Drop cord	4	3610 3625	Reels, Drop cord	4

			0045	Dathus den Aule	1
			3645	Rethreader, Axle	1
			3650	Rethreader, Spark plug hole	1
0705	Duty Flouible steel		3705	Rule, Flexible steel	•
3705	Rule, Flexible steel	1	3/03	tape (10')	1
2750	tape (10')	1	3750	Rule, Steel (12")	4
3750 3050	Rule, Steel (12")	4	3850	Saw, Hack (hand)	4
3850 3065	Saw, Hack (hand)	2	3965	Scissors	2
3965 3085	Scissors Serence Carbon	8	3985	Scraper, Carbon	8
3985 4025	Scraper, Carbon Screwdriver, Clutchhead	1	4025	Screwdriver, Clutchhead	1
	Screwdriver, Chillips (set)	2	4050	Screwdriver, Phillips (set)	2
4050	Screwariver, Filmips (sec)	_	5060	Screwdriver, Spiral	
				ratchet	1
4075	Screwdriver, Standard		4075	Screwdriver, Standard	
40/3	bit (square blade) (4")	2		bit (square blade) (4")	2
4080	Screwdriver, Standard	_	4080	Screwdriver, Standard	
4000	bit (square blade) (6")	2		bit (square blade) (6")	2
4085	Screwdriver, Standard	_	4085	Screwdriver, Standard	
4000	bit (square blade) (8")	2	• • • • • • • • • • • • • • • • • • • •	bit (square blade) (8")	2
4090	Screwdriver, Standard	_	4090	Screwdriver, Standard	
4050	bit (square blade) (10")	2		bit (square blade) (10")	2
4095	Screwdriver, Standard		4095	Screwdriver, Standard	
	bit (square blade) (12")	2		bit (square blade) (12")	2
4100	Screwdriver, Standard		4100	Screwdriver, Standard	
,,,,,	bit ("stubby")	4		bit ("stubby")	4
4105	Scriber	2	4105	Scriber	2
4165	Shield, Face	4	4165	Shield, Face	4
4275	Snips, Tinner's,		4275	Snips, Tinner's,	,_
	Straight (#8)	1		Straight (#8)	1
4335	Soldering Gun, Electric	1	4335	Soldering Gun, Electric	1
4435	Spout, Pouring, Oil can	1	4435	Spout, Pouring, Oil can	1
4640	Strap, Battery	2	4640	Strap, Battery	2
4760	Tap and Die, NC (U.S.S.)		4760	Tap and Die, NC (U.S.S.)	•
	(set)	1	_	(set)	1
4765	Tap and Die, NF (S.A.E.)		4765	Tap and Die, NF (S.A.E.)	•
	(set)	1		(set)	1
4770	Tap and Die, Pipe (set)	1	4770	Tap and Die, Pipe (set)	1
4815	Tester, Battery cell	1	4815	Tester, Battery cell	1
4845	Tester, Radiator	76-	4845	Tester, Radiator	1
	pressure	1	4020	pressure	
			4930	Tool, Drag link and	1
			402E	shock arm	•
			4935	Tool Holder, Lathe (left hand)	1
			4040	Tool Holder, Lathe (right	•
			4940	hand)	1
i			4045	Tool Holder, Lathe	•
			4945	(straight)	1
			AGEE	Torch, Propane (kit)	1
	Manak Adirakahla and		4955 5255	Wrench, Adjustable end	•
5255	Wrench, Adjustable end	2	JEJJ	(6")	2
	(6")	۷		(0)	_
14					
47					

5260	Wrench, Adjustable end (8")	2	5260	Wrench, Adjustable end (8")	2
5265	Wrench, Adjustable end (10")	2	5265	Wrench, Adjustable end (10")	2
5270	Wrench, Adjustable end (12")	2	5270	Wrench, Adjustable end (12'')	2
5275	Wrench, Adjustable end (monkey)	2	5275	Wrench, Adjustable end (monkey)	2
5280	Wrench, Allen key (hex) (set)	2 -	5280	Wrench, Allen key (hex) (set)	2
5290	Wrench, Combination box and open end (set)	4	5290	Wrench, Combination box and open end (set)	4
5295	Wrench, Combination box and open end (metric)	•	5295	Wrench, Combination box and open end (metric)	
	(set)	1		(set)	1
5300	Wrench, Deep socket (%" drive) (set)	1	5300	Wrench, Deep socket (%" drive) (set)	1
5305	Wrench, Deep socket	1	5305	Wrench, Deep socket (1/2" drive) (set)	1
	(½" drive) (set)	2	5310	Wrench, Drain plug	
5310	Wrench, Drain plug	2	5325	Wrench, Lug	2 2 î
5325	Wrench, Lug	2	5315	Wrench, Flare nut (set)	ī
5000	Manuals Impilion (act)	1	5315	Wrench, Ignition (set)	ī
5320	Wrench, Ignition (set)	1 2	5340	Wrench, Pipe (10")	2
5340	Wrench, Pipe (10")	2	5350	Wrench, Pipe (18")	1
5355	Wrench, Socket (1/4"	2	5355	Wrench, Socket (1/4" drive) (set)	2
E260	drive) (set) Wrench, Socket (%"	_	5360	Wrench, Socket (%"	
5360	drive) (set)	· 4		drive) (set)	4
5365	Wrench, Socket (½"	6	5365	Wrench, Socket (½" drive) (set)	6
	drive) (set)	· ·	5370	Wrench, Socket (metric) (set)	2
	•		5375	Wrench, Socket, Flex handle (%" drive)	2
			5380	Wrench, Socket, Flex handle (1/2" drive)	2
E20E	Wrench, Socket, Handle		5385	Wrench, Socket, Handle	
5385	extension (%" drive) (4")	2		extension (¾" drive) (4")	2
5390	Wrench, Socket, Handle	_	5390	Wrench, Socket, Handle	
	extension (3/8" drive) (3")	2		extension (¾" drive) (3")	2
5395	Wrench, Socket, Handle		5395	Wrench, Socket, Handle	
	extension (%" drive)	2	•	extension (¾" drive)	2
5. 555	(set)	2	5400	(set) Wrench, Socket, Handle	_
5400	-		3400	extension (½" drive)	
	extension (½" drive) (3")	2		(3")	2
	•			-	15

5405	Wrench, Socket, Handle extension (½" drive)		5405	Wrench, Socket, Handle extension (½" drive)	
	(8'')	2		(8")	2
5410	Wrench, Socket, Handle		5410	Wrench, Socket, Handle	
	extension (1/2" drive)	•		extension (½" drive)	2
	(set)	2	5415	(set) Wrench, Socket,	_
5415	Wrench, Socket,		3413	Reversible ratchet	
	Reversible ratchet	2		handle (1/4" drive)	2
5420	handle (¼" drive) Wrench, Socket,	_	5420	Wrench, Socket,	
3420	Reversible ratchet		•	Reversible ratchet	_
	handle (%" drive)	4		handle (¾" drive)	4
5425	Wrench, Socket,		5425	Wrench, Socket,	
0420	Reversible ratchet			Reversible ratchet	6
	handle (½" drive)	6		handle (½" drive)	6
5430	Wrench, Socket, Speed	_	5430	Wrench, Socket, Speed	2
	handle (¼" drive)	2		handle (¼" drive)	2
5435	Wrench, Socket, Speed		5435	Wrench, Socket, Speed	4
	handle (%" drive)	4	E440	handle (%" drive) Wrench, Socket, Speed	•
5440	Wrench, Socket, Speed	£	5440	handle (½" drive)	6
	handle $(\frac{1}{2}'')$ drive)	6	5445	Wrench, Socket,	
			547 5	Universal joint attach-	
				ment (1/4" drive)	2
EAEO	Wrench, Socket,		5450	Wrench, Socket,	
5450	Universal joint attac	h-		Universal joint attach-	
	ment (%" drive) (se			ment (%" drive) (set)	2
5455	Wrench, Socket,	-	5455	Wrench, Socket,	
3433	Universal joint attac	h-		Universal joint attach-	
	ment (1/2" drive) (se	et) 4		ment $(\frac{1}{2}"$ drive) (set)	4
5460		1	5460	Wrench, Tappet (set)	1
5465			5465	Wrench, Torque (%"	1
	drive)	1		drive)	1
5470	Wrench, Torque (1/2"	_	5470	Wrench, Torque (½"	1
	drive)	1		drive)	•
				_	
H. 1	Machines and General			Nachines and General	
	Equipment		E	Equipment	
	•	Number	Code	Item Nun	nber
Code	<u>Item</u> <u> </u>				1
			0020	Aligner, Connecting rod	1
			0030	Alternator-Generator-	1
			0005	Regulator Test Stand	i
			0035		1 1 1
		•	0040	. .	ī
0045		1	0045 0130		_
0130	<u>-</u>	1 0	0130	Charger	1
	Charger	1	0350		1
0350) Bleeder, Brake	1	0420		1
			V784		
•					

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			0455	Brake, Service shop	
			0.00	machine	1
			0690	Can, Carwash	i
0695	Can, Oil filler and		0695	Can, Oil filler and	•
	measure (1 qt.)	2	0030	measure (1 qt.)	2
0700	Can, Oil filler and	_	0700	Can, Oil filler and	_
0,00	measure (2 qt.)	1	0,00	measure (2 qt.)	1
0705	Can, Oil filler and	•	0705	Can, Oil filler and	•
0,00	measure (5 qt.)	1	0,00	measure (5 qt.)	1
0710	Can, Oily waste	3	0710	Can, Oily waste	
0, 10	oun, ony waste	•	0715	Can, Radiator	3 1
0720	Can, Safety (1 qt.)	3	0720	Can, Safety (1 qt.)	3
0725	Can, Safety (1 gal.)	2	0725	Can, Safety (1 qt.)	3 2
0/20	Can, Carety (1 gai.)		0725	Carburetor Repair set	1
0955	Cleaner, Spark plug	1	0755	Cleaner, Spark plug	1
0333	Cleaner, Spark plug	•	0960	Cleaner, Valve guide	1
			0965		1
	,		1075	Clutch Aligner Crane, Portable	1
1330	Drill, Electric,	•	1330	Drill, Electric,	1
1000	Portable (1/4")	2	1330	Portable (1/4")	2
1335	Drill, Electric,	2	1335	Drill, Electric,	2
1000	Portable (%")	1	1333	Portable (3/8")	1
	(78)	-	1340	Drill, Electric,	_
			1340	Portable (1/2")	1
1435	Engine, Automobile	1	1435	Engine, Automobile	1
1440	Engine, Diesel	i	1440	Engine, Diesel	1
1445	Engine, Outboard motor	i	1445	Engine, Outboard motor	î
1770	Engine, Outboard motor	•	1450	Engine, Rocket (small	•
			1430	or model)	1
1455	Engine, Small (2-cycle)	1	1455	Engine, Small (2-cycle)	1
1460	Engine, Small (4-cycle)	i	1460	Engine, Small (4-cycle)	î
1400	Engine, oman (+-cycle)	•	1465	Engine, Steam (model)	ī
1470	Engine, Turbine (small)	1	1470	Engine, Turbine (small)	ī
2470	Linginio, ruibinio (omany	•	1670	Funnel, Longspout,	•
			10/0	Automatic transmission	1
			1705	Galvanometer	i
1930	Grease Gun	1	1930	Grease Gun	i
1500	arcase dun	•	1935	Grease Gun, Chassis	i
			1940	Grease Gun, Extended	•
			2340	interval	1
			1945	Grease Gun, Gear lube	ī
1965	Grinder, Edge tool		1965	Grinder, Edge tool	•
1303	(bench)	1.	1303	(bench)	1
	(Bellell)	•	1970	Grinder, Flexible shaft	i
			1985	Grinder, Pedestal	i
			1995	Grinder, Valve (set)	i
2005	Growler, Armature		2005	Growler, Armature	•
~003	testing	1	2003	testing	1
2010	Gun, Engine cleaning	1	2010	Gun, Engine cleaning	1
2150	Hoist, Double post	i	2150	Hoist, Double post	i
2155	Hoist, Single post	i	2155	Hoist, Single post	i
		•	_155	ombie best	•
					17

2160	Hone, Brake cylinder (set)	1	2160 2165	Hone, Brake cylinder (set) Hone, Cylinder (to 7")	1 1
			2170 2195	Hone, Pin Hydraulic Instruction Unit	1
2215	Jack, Auto bumper (double-saddle type)	1	2215	Jack, Auto bumper (double-saddle type)	1
2220	Jack, Auto, Hydraulic (floor type) (1½ ton)	2	2220	Jack, Auto, Hydraulic (floor type) (1½ ton) Jack, Auto, Hydraulic	2
2225	Jack, Auto, Hydraulic (standard type) (1½ ton)	1	2225	(standard type) (1½ ton)	1
	(172 toll)	_	2230	Jack, Auto, Hydraulic (standard type) (2 ton)	1 1
			2405 2410 2415	Lamps, Drying (set) Lathe, Armature Lathe, Metalworking (10")	1
			2470 2665	Lift, Engine safety Milliammeter, Volt-ohm	1 1 2 2 1
			2785 2795	Motor Stand, Universal Multiscope	2
			3190	Pneumatic Instruction Center (pneumatic power unit)	1
3195 3250	Polisher, Body Press, Drill (15")	1 1	3195 3250	Polisher, Body Press, Drill (15")	1 1 1
02 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3255 3400	Press, Drill (17") Puller, Auto body metal (set)	1
			3570 3595	Radiator Test Plugs (set) Reamer, Expansion (set)	1
			3605 3615	Reamer, Valve seat (set) Refacer, Valve (set)	1 1 1
			3655 3800	Rheostat, 10 ohm Sander, Finishing, Portable, Air	1
			4455 4725	Tachometer	1 1 1
4745	-	1	4740 4745		1
	Solvent	•	4820	Tester, Coil and condenser	1
	•		4825 4975	Transformer, Step-down	1 1
			4980 5065	Truck, Welding cylinder	1 1 1
5140	Vise, Machinist's bench	1	5140 5185		1

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			5520	Welding Outfit, Oxyacetylene	1
			5235 5240	Wheel Alignment Set Wheel Balancer	1
			5240	wheel paralicer	•
II. C	General Furnishings			eneral Furnishings	
Code	Item Nu	ımber	Code	Item Numb	oer —-
0210	Bench, Metalworking		0210	Bench, Metalworking	
	(4 place)	2		(4 place)	2
0405	Bookcase	1	0405	Bookcase	1
0465	Broom, Push	3	0465	Broom, Push	3
0470	Brush, Bench	12	0470	Brush, Bench	12
0540	Cabinet, Filing	1	0540	Cabinet, Filing	1
0755	Chair, Teacher's	1	0755	Chair, Teacher's	1
1025	Compressor, Air	1	1025	Compressor, Air	1
1235	Desk, Teacher's	1	1235	Desk, Teacher's	1
1592	Fire Blanket	1	1592	Fire Blanket	1 3 1
1593	Fire Extinguisher	3	1593	Fire Extinguisher	3
1600	First Aid Kit	1	1600	First Aid Kit	
2175	Hose, Air	1	2175	Hose, Air	1
2180	Hose, Exhaust, Garage	1 1	2180	Hose, Exhaust, Garage	1
2185	Hose, Water		2185	Hose,_Water	1
2932	Pan, Dust	1	2932	Pan, Dust	1
2980	Pencil Sharpener,		2980	Pencil Sharpener,	
	Standard	1		Standard .	1
3340	Projector, Filmstrip		3340	Projector, Filmstrip	
	(35mm) and slide			(35mm) and slide	
	(2" x 2")	1		(2" x 2")	1
3345	Projector, Motion		3345	Projector, Motion	•
	picture, Sound	1		picture, Sound	1
3350	Projector, Overhead	1	3350	Projector, Overhead	1
4010	Screen, Projection	1	4010	Screen, Projection	1
4580	•		4580	Stand, Auto safety	20
*	(2 ton)	20	4505	(2 ton)	20
4585		_	4585	Stand, Auto safety	6
	(7 ton)	. 6	4600	(7 ton)	6 1
4690	Table, Overhead project	tor 1	4690	Table, Overhead projector	1
			5225	Welding Screen, Portable	- 1
		CEDA	MICC		

CEKAMICS

Introductory I. Raw Material Preparation and Storage				Advanced I. Raw Material Preparation and Storage			
Code	Item	Numbe	er	Code	ltem	Numb	er
0425 0525	Box, Clay storage, P Cabinet, Damp-prod		1 2	0425 0525 1585	Cabinet, [storage, Portable Damp-proof ss (laboratory	2 1 1

2790	Muller Mixer	1	2790	Muller Mixer	1
3385	Pug Mill, Extrusion	1			
	_		3370	Pug Mill, Laboratory	•
				model	1 1
			3375	Pug Mill, Studio model	
3380	Pug Mill, Vertical	1	3380	Pug Mill, Vertical	1
3440	Pulverizer, Laboratory				
	model	1		0	•
4625	Storage Unit, Clay	1	4625	Storage Unit, Clay	2.
5175	Wedging Boards	1		104 Aut Table	•
5180	Wedging Table	1	5180	Wedging Table	1
11. M	aterial Forming		11. Ma	aterial Forming	
11. 141	•	•		••	nber
Code	Item Nun	nber	Code	Item Nun	
0110	Banding Wheel, Potter's		0110	Banding Wheel, Potter's	
0110	bench	6		bench	12
0200	Bench, Marble slab	ì	0200	Bench, Marble slab	1
0375	Blunger	ī	0375	Blunger	1
1385	Dry Press	ī	1385	Dry Press	1
1520	Extrusion Machine, Auger	•	1520	Extrusion Machine, Auger	
1010	type	1		type	1
2250	Jigger, Electric		2250	Jigger, Electric	
	(industrial model)	1		(industrial model)	1
2350	Knife, Mold maker's	6	2350	Knife, Mold maker's	6
2695	Mixer, Slow speed		2695	Mixer, Slow speed	_
	(portable)	1		(portable)	1
2705	Modeling Tool (set)	6	2705	Modeling Tool (set)	6
3050	Plaster Working Tool	6	3050	Plaster Working Tool	6
3200	Potter's Wheel, Electric	1	3200	Potter's Wheel, Electric	2
3205	Potter's Wheel, Kick	1	3205	Potter's Wheel, Kick	2
3210	Potter's Wheel,		3210	Potter's Wheel,	
	Side-kick	1		Side-kick	2
4705	Table, Casting	1	4705	Table, Casting	1
4735	Tank, Agitated storage	1	4735	Tank, Agitated storage	1
4895	Throwing Ribs, Wooden		4895	Throwing Ribs, Wooden	
4030	(set)	6	_	(set)	6
5245	Wheel Turning Tool (set)	1	5245	Wheel Turning Tool (set) 1
02.10	, , , , , , , , , , , , , , , , , , ,				
***	• .		111	Nazing	
111.	Glazing		111.	Blazing	
Code	Item Nu	mber	Code	Item Nu	mber
	D. H. ANH. Delle - Arms	•		Ball Mill, Roller type	2
0105		1	0105		~
0555		. •	0555	Cabinet, Glaze and	1
_	library	1	400-	library	1
1025	·	1	1025	Compressor, Air	1
1915		_	1915	Graduate, Cylinder	3
	(100cc)	3		(100cc)	3
20					



1920	Graduate, Cylinder (500cc)	3	1920	Graduate, Cylinder (500cc)	3
2240	Jars, Grinding	3	2240	Jars, Grinding	3
2770	Mortar and Pestle	6	2770	Mortar and Pestle	6
3945	Scale, Laboratory	i	3945		1
3960	Scale, Triple beam	1	3960	Scale, Triple beam	1
4115	Seive, Test laboratory	_	4115	Seive, Test laboratory	6
4445	Spray Booth, Dry	1	4445	Spray Booth, Dry	1
4460	Spray Gun, Touch-up	1	4460	Spray Gun, Touch-up	1
IV. E	nameling		IV. E	nameling	
Code	ltem	Number	Code	Item	Number
0065	Atomizer	1	0065	Atomizer	1
1595	Firing Racks	3	1595	Firing Racks	3
1645	Fork, Firing	. 1	1645	Fork, Firing	1
2290	Kiln, Enameling	1	2290	Kiln, Enameling	1
4175	Sifter	2	4175	Sifter	3
5040	Trivets	3	5040	Trivets	3
V. Fi	ring		V. Fi	ring	
Code	ltem	Number	Code	Item	Number
1680	Furnace, Crucible	1	1680	Furnace, Crucible	1
2280	Kiln Cut-Off, Automat	tic	2280	Kiln Cut-Off, Automat	
	(heat control device	=		(heat control device	_
2285	Kiln, Electric	1	2285	Kiln, Electric	1
2295	Kiln, Front loading		2295	Kiln, Front loading	•
2300	Kiln, Gas	1	2300	Kiln, Gas	1
2305	Kiln, Starter	1	2305	Kiln, Starter	1
2310	Kiln, Top loading	1	2310	Kiln, Top loading	1
3510	Pyrometer, Optical	1	3510	Pyrometer, Optical	1
3515	Pyrometer, Portable		3515	Pyrometer, Portable	1 1
3520	Pyrometer, Radiation	1	3520	Pyrometer, Radiation	1
VI. C	Decoration—Finishing		VI. D	ecoration—Finishing	
Code	Item	Number	Code	Item	Number
0015	Airbrush	1	0015	Airbrush	1
0530	Cabinet, Drying	1	0530	Cabinet, Drying	1
2325	Knife, Fettling	1	2325	Knife, Fettling	1
3990	Scraper, Flexible	1	3990	Scraper, Flexible	1
4000	Scraper, Rigid	1	4000	• . •	1
5170	Ware Truck	1	5170	Ware Truck	1
	Wale Huck	•	31/0	Wato 112011	_



11. C	ast Stone		VII. C	Cast Stone	•
code	Item [Number	Code	ltem	Number
2570	Mason's Tools, Cemer	nt	2570	Mason's Tools, Cemer	
.570	(set)	1		(set)	1
2775	Mortar Box	1	2775	Mortar Box	1
,,,,	Mortal Box	1			1
	General Furnishings an Hand Tools	nd	VIII.	General Furnishings ar Hand Tools	
Code	Item	Number	Code	ltem	Number
0255	Bench, Woodworking		0255	Bench, Woodworking	
UZJJ	(4 place)	1		(4 place)	1
0405	Bookcase	ī	0405	Bookcase	1 3
0465	Broom, Push	3	0465		3
0470	Brush, Bench	6	0470		6 1 2 2
0540		1	0540		1
0720		2	0720		2
0725		2 2 1	0725		1
755		1	0755	Chair, Teacher's	_
	•		1125	Crusher, Jaw (labora	tory 1
				model)	1
1235	Desk, Teacher's	1	1235		
1355	Drill, Hand (%")	1	1355		1
1590	Finishing Rubber	1	1590	_	1
1 592	Fire Blanket	1	1592		1
1593	Fire Extinguisher	3	1593	Fire Extinguisher	3
	First Aid Kit	1	1600	First Aid Kit	1
1600		1	1710	Gauge, Auger bit	1
1710		- eet	1855		eet
1855	metal (American)	1		metal (American)	1
		_	1860		et
1860	metal (U.S.S.)	1		metal (U.S.S.)	1
1000		_	1900),
1900	Clear observation	12		Clear observation	12
1050		•	1960	Grinder-Buffer, Bend	ch,
1960	Combination	1		Combination	1
0475		1	2475	Lift, Pallet	1
2475		ssorted 6	2765		ssorted 6
2765		1	2932		1
2932		-	2980		
2980) Pencil Sharpener, Standard	1		Standard	
200	_	_	308		(6")
3085		1	325	- ··· /4 E/A	•
3250			334		
3340	Projector, Filmstrip		334	(35mm) and slice	le
	(35mm) and slic	ue 1		(2" x 2")	
	(2" x 2")	1		\- ~ - /	

22

3345	Projector, Motion picture, Sound	1	3345	Projector, Motion picture, Sound	1
3350	Projector, Overhead	1	3350 3450	Projector, Overhead Pump, Slip, Duplex	1
4010	Screen, Projection	1	4010	Screen, Projection	1
4165	Shield, Face	6	4165	Shield, Face	6
4415	Sponge, Elephant ear shape	3	4415	Sponge, Elephant ear shape	6
4420	Sponge, Sheep wool	3	4420	Sponge, Sheep wool	6
			4440	Spray Booth, Ceramic	1
4690	Table, Overhead projector	1	4690	Table, Overhead projector	1

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DRAFTING

	Introductory			Advanced	
I. Au	dio-Visual Equipment		1. Au	dio-Visual Equipment	
Code	Item N	lumber	Code	Item	Number
0985	Compass, Chalkboard	1	0985	Compass, Chalkboard	1
1275	Display Board	1	1275	Display Board	1
1280	Divider, Blackboard	1	1280	Divider, Blackboard	1
3325	Projection Box, Plastic	: 1			_
			3330	Projection Box, Plast Instructor's	ic, 1
			3335	Projection Box, Plast Student's	ic, 1
3340	Projector, Filmstrip (35mm) and slide (2" x 2")	· 1	3340	Projector, Filmstrip (35mm) and slide (2" x 2")	1
3345	Projector, Motion picture, Sound	1	3345	Projector, Motion picture, Sound	1
3350	Projector, Overhead	1	3350	Projector, Overhead	1
3355	Protractor, Chalkboard	1	3355	Protractor, Chalkboa	rd 1
3930	Scale, Chalkboard		3930	Scale, Chalkboard	
	(demonstration)	1		(demonstration)	1
4010	Screen, Projection	1	4010	Screen, Projection	1
5020	Triangle, Chalkboard, 30°-60°	1	5020	Triangle, Chalkboard 30°-60°	, 1
5025	Triangle, Chalkboard,	45° 1	5025	Triangle, Chalkboard	, 45° 1
11. In	struments and Tools		II. In	struments and Tools	
Code	item	Number	Code	Item	Number
0480	Brush, Duster, Draftsman's	24	0480	Brush, Duster, Draftsman's	24
	yraitsillali s	6-7			
					23

	O and Dividor		0975	Compass and Divider	
0975	Compass and Divider	24	037 0	(set)	24
0000	(set)	4	0980	Compass, Beam	4
0980	Compass, Beam	•	0990	Compass, Drop bow	1
1120	Curve, Irregular (set)	1	1130	Curve, Irregular (set)	1
1130	Curve, irregular (sec)	_	1135	Curve, Rule (adjustable)	1
1200	Cutter, Paper	1	1200	Cutter, Paper	1
1265	Dispenser, Drafting tape	2	1265	Dispenser, Drafting tape	2
1203	Dispensor, Drawing sap		1285	Divider, Proportional	
1480	Eraser Shields	24	1480	E. Goo.	24
2100			1655	Fountain Pen (technical	c
				set)	6 1
			1870	Geometric Shapes (set)	1
2455	Lettering Guide Line		2455	Lettering Guide Line	12
	Instrument	24		Instrument	1
		•	2460	Lettering Set	i
2880	Oilstone, Arkansas	1	2880	Oilstone, Arkansas Pantograph, Drafting	i
			2935 2950	Pen Holder	24
			2955	Pen Set	24
			2960	Pen, Speedball (set)	1
	n a section load		2965	Pencil Pointer, Lead	
2965	Pencil Pointer, Lead	24	2300	pencil	24
	pencil Pencil Reinter	24	2970	Pencil Pointer,	
2970	Pencil Pointer, Mechanical	1		Mechanical	1
2975	Pencil Sharpener,	_	2975	Pencil Sharpener,	_
29/3	Draftsman's	1		Draftsman's	1
2980	Pencil Sharpener,		2980	Pencil Sharpener,	•
2900	Standard	1		Standard	1
3365	Protractor, Semi-circular	6	3365	Protractor, Semi-circular	6
•	,		3630	Repair Kit, Drafting	1
				instrument	24
3925	Scale, Architect's	24	3925	Scale, Architect's	24
			3935	Scale, Decimal, Civil engineer's	12
			2050	Scale, Mechanical	
3950		_	3950	engineer's	12
	engineer's	6	3955		1
		•	3965		1
3965	Scissors	1	4190		1
			4635	11-1	
			4033	ruling	12
	•		4700		12
			4780	· · · · · · · · · · · · · · · · · ·	6
			4785		-
	_		4790	circle	6
			4705		-
			4795	circle, Large	6
			4000		24
			4800	_ `	_
			4805	i cilipiate, nats and som	

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4990	Triangle, 30°-60° (8")	24	4995	Triangles, 30°-60°	
			4333	(10" and 12")	24
5000	Triangle, 45° (6")	24		Tuit mla 450 /0//	24
			5005	Triangle, 45° (8")	3
			5010	Triangle, 45° (12")	_
		24	5015 5070	Triangle, Adjustable (10") T Square	24
5070	T Square	24	50/0	1 Square	₩7
III. N	lachines	•	III. M	lachines	
Code	Item N	umber	Code	Item Num	ber
			1485	Erasing, Machine, Elec.	1
			2505	Machine, Drafting (18")	8
			2510	Machine, Drafting (24")	4
2515	Machine, Reproduction		2515	Machine, Reproduction	
	(dry type)	1		(dry type)	1
2520	Machine, Reproduction		2520	Machine, Reproduction	
	(moist type)	1		(moist type)	1
2565	Marking Tool, Electric	1	2565	Marking Tool, Electric	1
IV. G	General Furnishings		IV. G	General Furnishings	
Code	Item N	lumber	Code	Item Num	ber
		lumber 24	Code 0385	Item Num Board, Drafting	<u>ber</u> 24
0385	Board, Drafting Bookcase		<u> </u>		
0385 0405	Board, Drafting Bookcase	24	0385	Board, Drafting	24
0385 0405 0465	Board, Drafting Bookcase Broom, Push	24	0385 0405	Board, Drafting Bookcase	24 1
0385 0405	Board, Drafting Bookcase Broom, Push Brush, Bench	24 1 2	0385 0405 0465	Board, Drafting Bookcase Broom, Push Brush, Bench	24 1 2 12 1
0385 0405 0465 0470	Board, Drafting Bookcase Broom, Push	24 1 2 12	0385 0405 0465 0470	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing	24 1 2 12 1 2
0385 0405 0465 0470 0540	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing	24 1 2 12 1	0385 0405 0465 0470 0540	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's	24 1 2 12 1 2 1
0385 0405 0465 0470 0540 0620	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage	24 1 2 12 1 2	0385 0405 0465 0470 0540 0620	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's	24 1 2 12 1 2 1 1
0385 0405 0465 0470 0540 0620 0755	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's	24 1 2 12 1 2 1 1	0385 0405 0465 0470 0540 0620 0755 1235 1240	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing	24 1 2 12 1 2 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's	24 1 2 12 1 2 1 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting	24 1 2 12 1 2 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's	24 1 2 12 1 2 1 1 1 ng 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing	24 1 2 12 1 2 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's	24 1 2 12 1 2 1 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust	24 1 2 12 1 2 1 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235 1240	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi	24 1 2 12 1 2 1 1 ng 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine	24 1 2 12 1 2 1 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235 1240	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi Pan, Dust Stool, Instructor's	24 1 2 12 1 2 1 1 1 ng 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550 4610	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine Stool, Instructor's	24 1 2 12 1 2 1 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235 1240	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi Pan, Dust Stool, Instructor's Stool, Student's	24 1 2 12 1 2 1 1 ng 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine Stool, Instructor's Stool, Student's	24 1 2 12 1 2 1 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235 1240 2932 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi Pan, Dust Stool, Instructor's Stool, Student's adjustable	24 1 2 12 1 2 1 1 1 1 1 2	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine Stool, Instructor's Stool, Student's adjustable	24 1 2 12 1 1 1 1 1 1 1
0385 0405 0465 0470 0540 0620 0755 1235 1240 2932 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi Pan, Dust Stool, Instructor's Stool, Student's adjustable Table, Drafting	24 1 2 12 1 2 1 1 ng 1	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine Stool, Instructor's Stool, Student's adjustable Table, Drafting	24 1 2 12 1 2 1 1 1 1 1 1 1 1 2
0385 0405 0465 0470 0540 0620 0755 1235 1240 2932 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi Pan, Dust Stool, Instructor's Stool, Student's adjustable Table, Drafting Table, Overhead	24 1 2 12 1 2 1 1 1 1 1 2	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine Stool, Instructor's Stool, Student's adjustable Table, Drafting	24 1 2 12 1 2 1 1 1 1 1 1 1 1 2
0385 0405 0465 0470 0540 0620 0755 1235 1240 2932 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standi Pan, Dust Stool, Instructor's Stool, Student's adjustable Table, Drafting	24 1 2 12 1 2 1 1 1 1 2 4 24 24	0385 0405 0465 0470 0540 0620 0755 1235 1240 1555 1660 2932 3550 4610 4615	Board, Drafting Bookcase Broom, Push Brush, Bench Cabinet, Filing Cabinet, Storage Chair, Teacher's Desk, Teacher's Desk, Teacher's standing File, Drafting Frame, Printing Pan, Dust Rack, Magazine Stool, Instructor's Stool, Student's adjustable Table, Drafting Table, Overhead projector	24 1 2 12 1 1 1 1 1 1 1 2 4 24

V. M	iscellaneous		V. Mi	scellaneous ·	
Code	Item N	umber	Code	Item Numb	er
			0645 0655	Caliper, Inside (6") Caliper, Outside (6")	1 1 1
1250	Die, Letter (set)	1	1250	Die, Letter (set)	
1255	Die, Number (set)	1	1255	Die, Number (set)	1
1495	Extension Cord	1	1495	Extension Cord	1
1593	Fire Extinguisher	1	1593	Fire Extinguisher	1
1600	First Aid Kit	1	1600	First Aid Kit	1
			1800	Gauge, Screw pitch	1
1855	Gauge, Wire and sheet metal (American)	1	1855	Gauge, Wire and sheet metal (American)	1
1860	Gauge, Wire and sheet		1860	Gauge, Wire and sheet	_
	metal (U.S.S.)	1		metal (U.S.S.)	1
2085	Hammer, Claw (16 oz.)	1	2085	Hammer, Claw (16 oz.)	1
			2315	Knife, Carving (set)	6
			2625	Micrometer, Outside (1")	1
3155	Pliers, Straight nose	1	3155	Pliers, Straight nose	1
		1	3495	Punch, Paper	1
3495	Punch, Paper	-	3710	Rule, Flexible, Steel tape (12')	1
		•	3723	Rule, Flexible, Steel	
				tape (100')	1
4050	Screwdriver, Phillips (set) 1	4050	Screwdriver, Phillips (set)	. 1
4070			4070	Screwdriver, Standard bit	
40/0	(round blade) (set)	1		(round blade) (set)	1
4080		bit	4080	Screwdriver, Standard bit	
4000	(square blade) (6")			(square blade) (6")	1
	•		4485	Square, Combination set	
	•			(with protractor and	
				center head)	
4595	Stapler, Hand	1	4595	Stapler, Hand	
4070	Japier, riana	3	4775		

ELECTRICITY-ELECTRONICS

Introductory			Advanced		
I. Small Tools and Equipment		I. Sn	nall Tools and Equipm	nent	
Code	Item	Number	Code	Item	Number
0025	Alignment Tool (set)	2	0025	Alignment Tool (set)	2
0285	Bit, Auger (set)	1	0285	Bit, Auger (set)	1
0335	Bit, Screwdriver (set)) 2	0335	Bit, Screwdriver (set)	
0340	Bit, Speed (set)	2	0340	Bit, Speed (set)	2
0430	Brace, Ratchet	1	0430	Brace, Ratchet	1



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0450	Brake, Box and pan	1	0450	Brake, Box and pan	1
0780	Chisel, Cold (set)	1	0780	Chisel, Cold (set)	1
0970	Coil Winder	1	0970	Coil Winder	1
1070	Countersink, High speed	1	1070	Countersink, High speed	1 2 1
1090	Crimping Tool	2	1090	Crimping Tool	2
1250	Die, Letter (set)	1	1250	Die, Letter (set)	1
1255	Die, Number (set)	1	1255	Die, Number (set)	1
1305	Divider, Wing	1	1305	Divider, Wing	1
1330	Drill, Electric,	_	1330	Drill, Electric,	
2000	Portable (1/4")	1		Portable (1/4")	1
1350	Drill, Hand (1/4")	ī	1350	Drill, Hand (1/4")	1
1360	Drill Stand, Fractional	ī	1360	Drill Stand, Fractional	1
1365	Drill, Twist (letter set)	i	1365	Drill, Twist (letter set)	1
	The state of the s	i	1370	Drill, Twist (number set)	1
1370		•	1375	Drill, Twist, Straight	_
1375		1	13/3	shank (fractional set)	1
1405	shank (fractional set)	1 2	1495	Extension Cord	2
1495		2	1540	Files (see specifications	-
1540	•		1340	for listing)	
4550	for listing)	6	1550	File Card and Brush	6
1550		6		File, Jeweler's (set)	ĭ
1565		1	1565 1570		i
1570		1	1570	File, Needle (set)	î
1710		1	1710	Gauge, Auger bit	i
1800		1	1800	Gauge, Screw pitch	•
1830		1	1830	Gauge, Thickness	1
40	("feeler")	1	1055	("feeler")	•
1855		1	1855	Gauge, Wire and sheet	1
	metal (American)	1	1060	metal (American) Gauge, Wire and sheet	•
1860		1	1860		1
	metal (U.S.S.)	1	1000	metal (U.S.S.)	•
1900		10	1900	Goggles (spectacles), Clear observation	12
	Clear observation	12	1005		1
1985		1	1985	Grinder, Pedestal	1
2030		_	2030	Hammer, Ball peen	6
	(12 oz.)	, 6	0005	(12 oz.)	U
2035	· · · · · · · · · · · · · · · · · · ·	_	2035	Hammer, Ball peen	6
	(16 oz.)	6		(16 oz.)	
2085		6	2085	Hammer, Claw (16 oz.)	6
2320	Knife, Electrician's	6	2320	Knife, Electrician's	6 2
	_		2490	Light, Extension	
2530		24	2530	Magnet, Bar	24
2830	Nibbler, Hand operated	2	2830		2 1
2865	•	1	2865	Oiler, Bench	1
2890	Oilstone, Combination,	_	2890	Oilstone, Combination,	^
	India	2		India	2
2895		_	2895	Oilstone, Combination,	^
	Silicon carbide	2		Silicon carbide	2
3085	Pliers, Combination (6")	12	3085	Pliers, Combination (6")	12
3095	Pliers, Duckbill	6	3095	Pliers, Duckbill	6
3100	·	12	3100	Pliers, Diagonal cutting	12
3135		12	3135	Pliers, Needle nose	12
	-				27
					Z.I

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	nu O'de subting (611)	12	3150	Pliers, Side-cutting (6")	12
3150	Lileral Mac agreeme (a.)	3		Pliers, Vise-grip wrench	3
3170	Pliers, Vise-grip wrench	1	3250	Press, Drill	1
3250	Press, Drill	2	3455	Punch, Center (set)	2
3455	Punch, Center (set)		3460	Punch, Chassis (round set)	1
3460	Punch, Chassis (round set)	1	3465	Punch, Chassis (square	
3465	Punch, Chassis (square	1	J-100	set)	1
	set)	2	3500	Punch, Pin (set)	2
3500	Punch, Pin (set)	_	3590	Reamer, Electrician's hand	1
3590	Reamer, Electrician's hand	6	3750	Rule, Steel (12")	6
3750	Rule, Steel (12")	1	3845	Saw, Coping	1
3845	Saw, Coping	4	3850	Saw, Hack (hand)	4
3850	Saw, Hack (hand)	1	3865	Saw, Hand, Crosscut	1
3865	Saw, Hand, Crosscut	i	3965	Scissors	1
3965	Scissors	•	4030	Screwdriver, Insulated	
4030	Screwdriver, Insulated	12	1000	(set)	12
4050	(set) Screwdriver, Phillips (set)	4	4050	Screwdriver, Phillips (set)	4
4050	Screwdriver, Retaining	•	4055	Screwdriver, Retaining	_
4055	type	2		type	2
4150	Shear, Squaring foot		4150	Shear, Squaring foot	1
4165	Shield, Face	6	4165	Shield, Face	6
4250	Snip, Aviation (left)	2	4250	Snip, Aviation (left)	2
4255	Snip, Aviation (right)	2	4255	Snip, Aviation (right)	2
4275	Snips, Tinner's, Straight		4275	Snips, Tinner's, Straight	_
72/3	(#8)	3		(#8)	3
4295	Soldering Copper,				
	Electric (60W)	6		Outdowing Conner	
4310	Soldering Copper,	_	4310	Soldering Copper,	6
	Electric pencil	6	4225	Electric pencil Soldering Gun, Electric	4
4335		4	4335	Square, Combination	3
4480		3	4480		1
4490	Square, Steel framing	1	4490	- 4640	6
	NO (11 C		4495 4760	NO /II C	
4760		1	4/00	standard) (set)	1
	standard) (set)	•	4765	- A NE (O A E)	
4765		1	4700	(set)	1
4776	(set) Tap and Die, Pipe (set)	ī	4770	- A DI Di (ach)	1
4770		1	5195		1
5195		•	525 5	المصمم ما مليف فقيق الأستان	
5255		4	J233	(6")	4
	(6")	7	5280		
5280		2	J200	(set)	2
	(set)	2	5330		2
5330	•	1	5335		1
533		1	5360		
536		1	2200	drive) (set)	1
	drive) (set)	1		G1110) (001)	

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Power Supply, Varial output It Equipment tem Capacitor Substitution Box Oscilloscope Signal Tracer Tester, Transistor Tester, Tube	Numbe	3	3225 4180 III. T Code 0730 2910 4185 4850	Power Supply, Variate output, Filtered Signal Generator est Equipment Item Capacitor Substitution Box Oscilloscope Signal Tracer	8 2 Number
output tem Capacitor Substitution Box Oscilloscope Signal Tracer Tester, Transistor Tester, Tube	Numbe	r 1 6 2	4180 III. T Code 0730 2910 4185	output, Filtered Signal Generator est Equipment Item Capacitor Substitution Box Oscilloscope Signal Tracer	Number on 1
tem Capacitor Substitution Box Oscilloscope Signal Tracer Tester, Transistor Tester, Tube	on (1 6 2	Code 0730 2910 4185	Capacitor Substitution Box Oscilloscope Signal Tracer	on 1
Capacitor Substitution Box Oscilloscope Signal Tracer Tester, Transistor Tester, Tube	on (1 6 2	0730 2910 4185	Capacitor Substitution Box Oscilloscope Signal Tracer	on 1
Box Oscilloscope Signal Tracer Tester, Transistor Tester, Tube		6 2 1	2910 4185	Box Oscilloscope Signal Tracer	1
			4855	Tester, Tube	1 1
			IV. I	Metering Equipment	
Item	Numbe	er	Code	Item	Number
	-,	1 1	2610	Meter, Volt-ohm (m range)	er 1 er 1 1
neral Furnishings			V. (General Furnishings	
	Numb	er	Code	Item	Number
Bench, Island-doub Bookcase Broom, Push Cabinet, Filing Cabinet, Instrumen storage Cabinet, Parts stor	it rage	6 1 3 1 2 1 1 1 1 1 3	0190 0405 0465 0540 0565 0590 0625 0755 1025 1235	demonstration Bench, Island-doub Bookcase Broom, Push Cabinet, Filing Cabinet, Instrumen storage Cabinet, Parts stora Cabinet, Tool stora Chair, Teacher's Compressor, Air Desk, Teacher's Fire Blanket	1 3 1 t 2 rage 1
	meral Furnishings Item Bench, Island-doub Bookcase Broom, Push Cabinet, Filing Cabinet, Instrumen storage Cabinet, Parts sto Cabinet, Tool stora Chair, Teacher's Compressor, Air Desk, Teacher's Fire Blanket	Bench, Island-double-face Bookcase Broom, Push Cabinet, Filing Cabinet, Instrument storage Cabinet, Parts storage Cabinet, Tool storage Chair, Teacher's Compressor, Air Desk, Teacher's Fire Blanket	Meter, Battery tester 1 neral Furnishings Item Number Bench, Island-double-face 6 Bookcase 1 Broom, Push 3 Cabinet, Filing 1 Cabinet, Instrument storage 2 Cabinet, Parts storage 1 Cabinet, Tool storage 1 Chair, Teacher's 1 Compressor, Air 1 Desk, Teacher's 1 Fire Blanket 1	Meter, Battery tester 1 2585 2590 2595 2610 2615 neral Furnishings V. (Code) Bench, Island-double-face 6 0190 Bookcase 1 0405 Broom, Push 3 0465 Cabinet, Filing 1 0540 Cabinet, Instrument storage 2 Cabinet, Parts storage 1 0590 Cabinet, Tool storage 1 0625 Chair, Teacher's 1 0755 Compressor, Air 1 1025 Desk, Teacher's 1 1235 Fire Blanket 1 1596	Meter, Battery tester Meter, Battery tester 1 2585 Meter, Battery tester 2590 Meter, Galvanomete 2595 Meter, Volt-ohm (m range) 2615 Meter, VTVM V. General Furnishings Item Number Code Item 0170 Bench, Electric demonstration Bench, Island-double-face 6 Bookcase Broom, Push Cabinet, Filing Cabinet, Filing Cabinet, Instrument storage Cabinet, Parts storage Cabinet, Tool storage Cabinet, Tool storage Chair, Teacher's Compressor, Air Desk, Teacher's Fire Blanket 1 2585 Meter, Battery tester 2590 Meter, Galvanomete 2610 Meter, Volt-ohm (m range) 2615 Meter, VTVM V. General Furnishings O170 Bench, Electric demonstration Bookcase 1 0405 Bookcase Broom, Push Cabinet, Filing Cabinet, Filing Cabinet, Filing Cabinet, Instrumen storage Cabinet, Parts storage Cabinet, Tool storage Chair, Teacher's Compressor, Air Desk, Teacher's Fire Blanket Compressor, Air Cabinet, Filing Cabinet, Tool storage Cabinet, Tool storage Cabinet, Tool storage Cabinet, Filing Cabinet, Filing Cabinet, Farts storage Cabinet, Fool storage Cabine



1600 2932 2980	First Aid Kit Pan, Dust Pencil Sharpener,	1	1600 2932 2980	First Aid Kit Pan, Dust Pencil Sharpener,	1
	Standard	1		Standard	1
3340	Projector, Filmstrip (35mm) and slide		3340	Projector, Filmstrip (35mm) and slide	
	(2" × 2")	1		(2" x 2")	1
3345	Projector, Motion		3345	Projector, Motion	
	picture, Sound	1		picture, Sound	1
3350	Projector, Overhead	1	3350	Projector, Overhead	1
4010	Screen, Projection	1	4010	Screen, Projection	1
4690	Table, Overhead projector	1	4690	Table, Overhead projector	1

ELEMENTARY

Note:

Quantities of tools presented in this list are arranged into columns according to the requirements of different types of elementary school programs:

Column I—Schools with central activities room for approximately 24 students.

Column II—Activity room adjacent to regular classroom for 4-8 students.

Column III—Work bench(es) and/or tool cabinet in regular classroom— 4-8 students.

Column IV—Portable tool kit or cabinet—4-24 students.

Grade level designations in the list are as follows:

A—recommended for K and grades - 3

B—recommended for grades 4 · 6

C—recommended for grades 7 - 8 (when included as a part of the elementary school).

			Quar	Grade			
Code	Item	Column:	<u> </u>	!		IV	Level
I. Wo	oodworking Tools						
0090	Awl, Scratch		1	1	• 1	1	ABC
0185	Bench Hook	•	6	6	6	6	ABC
0220	Bench, Saw		1	1	1	1	ABC
0285	Bit, Auger (set)		1	1	1	1	ABC
0305	Bit, Expansive		1	1	1	1	BC
0430	Brace, Ratchet		2	2	2	· 2	ABC
0440	Brad Driver		1	1	1	1	ABC
0520	Burnisher		1	1	1	1	BC
0765	Chisel, Butt (set)		1	1	` 1	1	С
0775	Chisel, Carving (set)		1	1	1	1	ABC
0780	Chisel, Cold (set)		1	1	1	1	BC
0850	Clamp, Bar (36")		2	2	2	2	BC
0865	Clamp, "C" (2")		12	6	6	12	ABC
0370	Clamp, "C" (3")		24	12	12	24	BC
0940	Clamp, Spring (#2)		12	12	12	12	ABC

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1350	Drill, Hand (1/4")	3	2	2	2	ABC
1540	Files (see specifications					
	for listing)					
1550	File Card and Brush	4	2	2	2	ABC
1710	Gauge, Auger bit_	1	1	1	1	ABC
2070	Hammer, Claw (7 oz.)	6	4	4	6	ABC
2075	Hammer, Claw (10 oz.)	6	4	4	6	ABC
2080	Hammer, Claw (13 oz.)	4	1	1	4	ABC
2260 2260	Jointer (6")	1	•		•	BC
2360	Knife, Putty	1 2	1 2	1	1	ABC
2370	Knife, Sloyd	2	2	2	2	ABC
2690 2800	Mitre Box	1 1	1	1	1 1	ABC ABC
2805	Nail Set (1/16" tip) Nail Set (3/32" tip)	1	1	1 1	1	ABC
3000	Plane, Block	1 2	2	2	2	ABC
3000	rialie, block	6	4	4	6	BC
3040	Plane, Smoothing	1	$\vec{1}$	1	1	C
3795	Sander, Finishing	ī	ī	ī	ī	ВС
3820	Saw, Back	6	4	4	6	ABC
3840	Saw, Compass (set)	1	1	ĺ	1	ABC
3845	Saw, Coping	12	8	8	12	ABC
3865	Saw, Hand, Crosscut	6	2	2	6	ABC
3910	Sawhorse (18")	8	4	4	8	ABC
3915	Sawjack	24	6	6	24	ABC
3980	Scraper, Cabinet	4			4	BC
3995	Scraper, Hand	2	2	2	2	ABC
		,	2	_		
5165	Vise, Woodworker's	4 2 2	2 2	2	2	ABC
5165	Vise, Woodworker's	2	2	2		
5165		2	2	2		
5165 II. M	Vise, Woodworker's etalworking Tools	_		2	2	ABC
5165 II. M 1305	Vise, Woodworker's etalworking Tools Divider, Wing	1 1	1 1	1 1		ABC
5165 II. M	Vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel	1	1	2	2	ABC
5165 II. M 1305 1320	Vise, Woodworker's etalworking Tools Divider, Wing	1	1	2	2	ABC
5165 II. M 1305 1320	Vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications	1	1	2	2	ABC
5165 II. M 1305 1320 1540 1550 1570	Vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set)	1 1	1 1	1 1	1 1	ABC ABC ABC
5165 II. M 1305 1320 1540	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet	1 1 24 1	1 1 24 1	1 1 24 1	2 1 1 24 1	ABC ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570 1855	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American)	1 1 24	1 1 24	1 1 24	2 1 1	ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet	1 1 24 1	1 1 24 1	2 1 1 24 1	2 1 1 24 1	ABC ABC ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570 1855	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.)	1 1 24 1 1	1 1 24 1	2 1 1 24 1 1	2 1 1 24 1	ABC ABC ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.)	1 1 24 1 1 2	1 1 24 1	2 1 1 24 1 1 2	2 1 1 24 1 1 2	ABC ABC ABC ABC ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.)	1 1 24 1 1 2 4	1 1 24 1	2 1 1 24 1 1 2 4	2 1 1 24 1 1 2 4	ABC ABC ABC ABC ABC ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping	1 1 24 1 1 2 4	1 1 24 1	2 1 1 1 1 1 2 4 1	2 1 1 24 1 1 2 4	ABC ABC ABC ABC ABC ABC ABC ABC ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling	1 1 24 1 1 2 4 1 1	1 1 24 1	2 1 1 24 1 1 2 4 1 1	2 1 1 24 1 1 2 4	ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290 3455	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling Punch, Center (set)	1 1 24 1 1 2 4 1 1	1 1 24 1 1 2 4 1 1	2 1 1 1 1 1 2 4 1 1 1	2 1 1 1 1 2 4 1 1 1	ABC ABC ABC ABC ABC ABC ABC ABC BC BC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290 3455 3480	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling Punch, Center (set) Punch, Hand (set)	1 1 24 1 1 2 4 1 1 1 1	1 1 24 1 1 2 4 1 1 1	2 1 1 1 1 1 2 4 1 1 1 1	2 1 1 1 1 2 4 1 1 1 1	ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290 3455 3480 3670	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling Punch, Center (set) Punch, Hand (set) Riveter, "Pop" (set)	1 1 24 1 1 2 4 1 1 1 1	1 1 24 1 1 2 4 1 1 1 1	2 1 1 1 1 2 4 1 1 1 1 1	2 1 1 24 1 1 2 4 1 1 1 1	ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290 3455 3480 3670 3850	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling Punch, Center (set) Punch, Hand (set) Riveter, "Pop" (set) Saw, Hack (hand)	1 1 24 1 1 2 4 1 1 1 1 1	1 1 24 1 1 2 4 1 1 1 1 1	2 1 1 1 1 1 2 4 1 1 1 1 1 1	2 1 1 1 1 2 4 1 1 1 1 1 1	ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290 3455 3480 3670 3850 4160	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling Punch, Center (set) Punch, Hand (set) Riveter, "Pop" (set) Saw, Hack (hand) Sheet Metal Tool	1 1 24 1 1 2 4 1 1 1 1	1 1 24 1 1 2 4 1 1 1 1	2 1 1 1 1 2 4 1 1 1 1 1	2 1 1 24 1 1 2 4 1 1 1 1	ABC
5165 II. M 1305 1320 1540 1550 1570 1855 1860 2015 2020 2065 2290 3455 3480 3670 3850	vise, Woodworker's etalworking Tools Divider, Wing Dresser, Grinding wheel Files (see specifications for listing) File Card and Brush File, Needle (set) Gauge, Wire and sheet metal (American) Gauge, Wire and sheet metal (U.S.S.) Hammer, Ball peen (2 oz.) Hammer, Ball peen (4 oz.) Hammer, Chipping Kiln, Enameling Punch, Center (set) Punch, Hand (set) Riveter, "Pop" (set) Saw, Hack (hand)	1 1 24 1 1 2 4 1 1 1 1 1	1 1 24 1 1 2 4 1 1 1 1 1	2 1 1 1 1 1 2 4 1 1 1 1 1 1	2 1 1 1 1 2 4 1 1 1 1 1 1	ABC

ERIC Full Year Provided by ERIC

4075	Caine Timoule Studiest					
4275	Snips, Tinner's, Straight	1	1	1	1	ABC
400E	(#8)	•	•	•	-	
4295	Soldering Copper, Electric (60W)	1	1	1	1	BC
	(6011)	•	-	-	_	
III. P	lastics Tools					
		•			1	ABC
2190	Hot Plate, Electric	1 1			1	ABC
2915	Oven	1	1	1	1	ABC
4655	Strip Heater	1	1	•	•	ADO
4880	Thermoforming Press,	1				ABC
	Vacuum (small)	•				7.50
IV. L	eatherworking Tools					
	_	•	•	E	5	ABC
0270	Beveler	5	5	5	24	ABC
0380	Board, Cutting	24	6 1	6 1	1	ABC
0810	Chisel, Thonging (4-prong)	1 2	2	2	2	ABC
0815	Chisel, Thonging (3-prong)	2	2	2	2	ADO
0820	Chisel, Thonging (single-	2	2	2	2	ABC
	prong) (1/8")	2	2	_	_	7150
0825	Chisel, Thonging (single-	1	1	1	1	ABC
	prong) (3/32")	i	i	i	ī	ABC
1525	Eyelet Setter	1	•	•	ī	ABC
1740	Gauge, Draw	2	2	2	2	BC
2315	Knife, Carving (set)	2 1	ī	ī	ī	ABC
2330	Knife, Head Knife, Skiving	2	2	2	2	ABC
2365	Knife, Swivel cutter	4	4	4	4	BC
23 8 0 2540	Mallet, Rawhide	12	4	4	12	ABC
3490	Punch, Leather, Revolving	1	1	1	1	BC
4125		1	_			BC
	Skife	2			2	ABC
	Snap Fastener (set)	2 2	1	1	2	ABC
4575		_				
43/3	fications for listing)					ABC
5125		3	3	3	3	ABC
JILO	Venier, Essenier etsemp					
V. Graphic Arts Tools						
		4	4	4	4	BC
0460		•	•	•		
1160	(push-type)	6	4	4	6	BC
1165		•	•			
1103	(pull-type)	6	4	4	6	BC
3240		ì	1	1	1	BC
4220		1	1	1	1	ABC
4221	Jiab, ilikilig	_	-			
VI. Ceramics Tools						
		1				BC
1880		1				ABC
2285		3	3	3	3	ABC
2705	Modeling Tool (set)	•	•	-		

ERIC Full fiest Provided by ERIC

3515	Pyrometer, Portable	1				ABC
	Sponge, Elephant ear shape	1	1	1	1	ABC
4605	Stilts, Kiln	144				ABC
5030	Triangle, Kiln	144				ABC
VII. W	/eaving					
2500	Loom, Table	3			3	BC
2815	Needle, Knitting (pair)	12	6	6	12	BC
2825	Needle, Raffia (card)	24	8	8	24	ABC
VIII. (General Furnishings					
		6	1-6	2		ABC
0175 0255	Bench, Elementary, Work Bench, Woodworking (4 place)		2	2 2		ABC
0255	Blow Torch	ĭ	_		1	BC
0405	Bookcase	1	1	1		ABC
0465	Broom, Push	6 1 1 3 12	3	3		ABC
0470	Brush, Bench		4	4	6	ABC
0510	Buffer, Pedestal	4 . 1				BC
0540	Cabinet, Filing	1	1	1		ABC
0620	Cabinet, Storage		1	1	•	ABC
0745	Cart, Stock	1			1	ABC
0750	Cart, Tool	_	•	•	1-2	ABC ABC
0755	Chair, Teacher's	1	1	1	6	ABC
0995	Compass, Pencil	6	6	6	6 1	ABC
1150	Cutter, Glass	1	1	1	1	ABC
1235	Desk, Teacher's	1 1 1	1	1	1	ABC
1330	Drill, Electric, Portable (1/4")	i	i	1	ī	ABC
1360	Drill Stand, Fractional	1	•	•	•	,,,,,
1375	Drill, Twist, Straight shank	1	1	1		ABC
1500	(fractional set)	i	ī	1 1	1	ABC
1592	Fire Blanket Fire Extinguisher		2	2		ABC
1593 1600	First Aid Kit	2 1 1 1	$\overline{1}$	1	1	ABC
1620	Flocking Gun	1				BC
1890	Gloves, Rubber (pair)	1	1	1	1	ABC
1900	Goggles (spectacles),				_	
2000	Clear observation	10	4	6	6	ABC
1960	Grinder-Buffer, Bench,					50
	Combination	1	•	_	•	BC
2560	Marker, Felt-tip, Color (set)	6	2	2	6	ABC BC
2865	Oiler, Bench	6	2	2	1 2	ABC
2890	Oilstone, Combination, India	4 1	2	1	1	ABC
2932	Pan, Dust	1	1	1	•	ABC
2980	Pencil Sharpener, Standard	3	2 2 1 1 2 1 2	2 1 1 2 1 2	3	ABC
2985	Pencil, Woodburning	3 2	1	1	2	ABC
3085	Pliers, Combination (6")	2	•	ž	2 2	ABC
3100	Pliers, Diagonal-cutting	1	1	1	1	A
3105		i	i	ī	ī	ABC
3135		i	ī	ī	1	BC
3170	Lileta, Alac.Rith Michel	_	-			22
						22



3340	Projector, Filmstrip					
	(35mm) and slide (2" x 2")	1	1	1		ABC
3345	Projector, Motion picture,					
	Sound	1	1	1		ABC
3350	Projector, Overhead	1	1	1		ABC
3365	Protractor, Semi-circular	2	1	1	2	ABC
3700	Rule, Flexible, Steel tape (8')	1	1	1	1	ABC
3750	Rule, Steel (12")	2	2	2	2	ABC
3775	Sander, Band	1				BC
3830	Saw, Band, Wood-cutting	1				C
3835	Saw, Circular, Power	1	1			ABC
3885	Saw, Jig (scroll)	1				ABC
3900	Saw, Sabre (bayonet)	1			1	BC
3965		2	2	2	2	ABC
4010	Screen, Projection	1	1	1		ABC
4065	Screwdriver, Standard bit					
	(changeable blades) (set)	1	1	1	1	ABC
4070	Screwdriver, Standard bit					
	(round blade) (set)	1	1	1	1	ABC
4165	Shield, Face	3	1	1	2	ABC
4335	Soldering Gun, Electric	1	1	1	1	C
4430	Spoons, Measuring (set)	1	1	1	1	ABC
4490	Square, Steel framing	3	1	1	2	ABC
4495	Square, Try (6")	6	2	2	6	ABC
4500	Square, Try (8")	4	2	2	4	ABC
4690	Table, Overhead projector	1	1	1	1	ABC
4775	T Bevel	1	1	1	1	C
5075	Tumbler, Lapidary	1	1	1		BC
5260	Wrench, Adjustable end (8")	1	1	1	1	ABC

GENERAL SHOP

Note:

Because general shop industrial arts experiences are considered exploratory and basic in nature, no equipment has been listed for advanced-level work.

General industrial arts provided in a general shop is intended to offer a wide variety of experiences. To that end, equipment has been listed for ten areas (ceramics, enameling, leatherwork, plastics, drafting, electricity, metalworking, power mechanics, woodworking, and graphic arts). Certain items of equipment appear to be basic to all general shop facilities and are listed under "I. General." Items listed in "I. General" are not repeated in the area sections which follow.

Quantities recommended for sections II through XIX are in terms of "per six students." If the facility being established is to offer a wide variety of experiences, the students would be distributed in small numbers per area and the quantities of tools can be scaled down. Conversely, if all of the students are concentrated in only two or three areas, the quantities listed should be slightly increased.

Quantities recommended for section I are in terms of the number needed for the entire program. Certain minor adjustments up or down may have to be made due to the emphasis placed on individual areas in the local facility.



ERIC



l. Ge	neral	_	1855	Gauge, Wire and sheet metal (American)	2
Code_	Item Nu	umber	1860	Gauge, Wire and sheet	_
		_		metal (U.S.S.)	2
0085	Awl, Brad	2 3	1900	Goggles (spectacles),	
090	Awl, Scratch	3		Clear observation	12
)245	Bench, Wall type	2	1980	Grinder, Oil tool	1
)255	Bench, Woodworking	5	2130	Hammer, Soft face	_
MAGE	(4 place)			(4 oz.)	2
)405)465	Bookcase Broom Buch	1 3	2360	Knife, Putty	3
)465)470	Broom, Push Brush, Bench	1 2	2370	Knife, Sloyd	6
)500	Brush, Wire	6	2535	Mallet, Hardwood	2
)500)510	Buffer, Pedestal	1	2540	Mallet, Rawhide (10 oz.)	2
0540	Cabinet, Filing	2	2865	Oiler, Bench	3
0542	Cabinet, Finishing	_	2890	Oilstone, Combination,	
JJ72	(storage)	1		India	1
0585	Cabinet, Paper and	_	2895	Oilstone, Combination,	
	drawing storage	1		Silicon carbide	1
0625	Cabinet, Tool Storage	2	2932	Pan, Dust	4
0645	Caliper, Inside (6")	2	2980	Pencil Sharpener,	
0650	Caliper, Inside (8")	2		Standard	٠
0655	Caliper, Outside (6")	2 2 2 2 2 4	3085	Pliers, Combination (6")	4
0660	Caliper, Outside (8")	2	3090	Pliers, Combination (8")	
D710	Can, Oily waste	2	3100	Pliers, Diagonal-cutting	
0720			3110	Pliers, End-cutting	
0725		2 1	3250	Press, Drill (15")	
0755	-		3340	Projector, Filmstrip	
0765	Chisel, Butt (set)	2	3370	(35mm) and slide	
0940	Clamp, Spring (#2)	12		(2" x 2")	
0995	Compass, Pencil	6 1	3345	Projector, Motion	
1025	•	_	3373	picture, Sound	
1070		1	3350	Projector, Overhead	
1150 1235		i	3455	Punch, Center (set)	
1250		ī	3500	Punch, Pin (set)	
1255		1	3695	Rule, Flexible, Steel	
1295		1	3033	tape (6')	
1300		1	3750		
			37 6 0		
1320			3780		
1330		1	3/00	Electric	
1405	(½") Extension Cord	2	3785	Sander, Combination belt	
1495			3/03	and disc	
1540	•	•	3795	Sander, Finishing,	
1646	for listing)	1	3/73	Portable, Electric	
1545		6	3850		
1550					
1592		1	3855 3875	· · · · · · · · · · · · · · · · · · ·	
1593	<u> </u>	3	3875		
1600	First Aid Kit	1	3965	Scissors	
					4

4010	Screen, Projection	1	11.	Се	ramics (crafts)	
4020	Screwdriver, Cabinet tip	2	Cod	ام	Item No	umber
4035	Screwdriver, Offset,				TICH TYPE	
4000	Phillips (set)	1	042	5	Box, Clay storage, Porta	ble 1
4045	Screwdriver, Offset,		052		Cabinet, Damp-proof	1
	Straight slot (set)	1	053		Cabinet, Drying	1
4050	Screwdriver, Phillips		228	_	Kiln, Electric	1
	(set)	1	229)5	Kiln, Front loading	1
4070	Screwdriver, Standard bit		270		Modeling Tool (set)	2
	(round blade) (set)	2	276	55	Molds, Ceramics	•
4100	Screwdriver, Standard bit				(assorted)	6
	("stubby")	2	284		Nipper, Tile	. 1
4165	Shield, Face	6	320		Potter's Wheel, Electric	2 1 1 6
4275 .	· · · · · · · · · · · · · · · · · · ·	•	479 504		Tank, Storage, Slip Trivets	6
	(#8)	2	518	_	Wedging Table	ĭ
4295	Soldering Copper,	•	J1 (,,	weaping rabio	_
	Electric (60W)	2 1	ini.	C	rafts—Enameling	
4455	Spray Gun Outfit	2				
4480	Square, Combination	2	Cod	je_	Item N	umber
4485	Square, Combination set		00	e E	Alamizar	1
	(with protractor and center head)	1	000		Atomizer	2
4490	Square, Steel framing	2	16		Fork, Enameling	1
4490 4595	Stapler, Hand	1	229		Kiln, Enameling	2
4615	Stool, Student's	•	35		Rack, Enameling Sifter	1
4013	adjustable	6	41		Torch, Gas	i
4665	Table, Blueprint	1	49: 50		Tweezers, Bevel point	2
4670	Table, Drafting	6	30	DU	(Weezers, Dever point	-
4690	Table, Overhead	_	IV.	_	Crafts—Leather	
4030	projector	1			_	
4760	Tap and Die, NC (U.S.	•	Co	<u>de</u>	ItemN	lumber
	standard) (set)	1			- - A 1 0011 11 A.A	.a:_ 1
4765	Tap and Die, NF (S.A.E.)		00	_	Awl, Stitching, Automa	
	(set)	1		30	Chisel, Thonging (set)	2
4965	Trammel points	1		80	Creaser, Adjustable ed	ge 1 1
5135	Vise, Bench, Drill	1		25	Eyelet Setter	1
5140	Vise, Machinist's bench	4		35	Fid	2
5160	Vise, Swivel	1		40	Knife, Leather	2
5255	Wrench, Adjustable end	_		65	Knife, Skiving	6
	(6")	2		80	_	_
5260	Wrench, Adjustable end	•	24	45	Leather Modeling Tool	2
	(8")	1	20	20	(set)	6
5265	Wrench, Adjustable end	1		20	Needle, Lacing Pencil, Woodburning	1
	(10")	1		85	Punch, Leather,	•
5270	Wrench, Adjustable end	1	34	90	Revolving	2
EAAA	(12") Wransh Allan kay (hay)	1	A 1	40		2
5280		2		40	Snap Fastener (set)	2
	(set)	~	76		Silup i ustolioi (oot)	_

ERIC Provided by ERIC

4340	Spacer, Leather marker	2	2585	Meter, Battery tester	1
4575	Stamp, Leather	2	2610	Meter, Volt-ohm (mult	i-
				range)	6
V. C	rafts—Plastics		2615	Meter, VTVM	1
Code	Itom No.	b	2910	Oscilloscope	1
Code	Item Nu	mber	3105	Pliers, Electrician's	2
07E0	Molding Dunn Initiation		3130	Pliers, Long nose	2
2750	Molding Press, Injection		3215	Power Supply, Low	
001E	(small)	1		voltage	1
2915	Oven	1	3220	Power Supply, Variable	е
4395 4655	Spatula	1		output	1
4655 4075	Strip heater	1	3225	Power Supply, Variable	e
4875	Thermoforming Press,			output, Filtered	1
	Vacuum (medium)	1	3460	Punch, Chassis (round	l
\/I				set)	1
VI. D	Prafting Tools		3465	Punch, Chassis (squar	re
Code	Item Nu	mber		set)	1
			4030	Screwdriver, Insulated	1
0385	Board, Drafting	6		(set)	2
0480	Brush, Duster,	•	4180	Signal Generator	1
	Draftsman's	6	4335	Soldering Gun, Electric	
0975	Compass and Divider	•	4840	Tester, Neon lamp typ	
	(set)	6			
0985	Compass, Chalkboard	6 1	4855	Tester, Tube	1
1130	Curve, Irregular (set)	2	4970	Transformer, Bell	3
1200	Cutter, Paper	2 1	5250	Wire Cutter and Stripp	
1480	Eraser Shields	6	5330	Wrench, Nutdriver (set	:) 6
2460	Lettering Set	1			
2505	Machine, Drafting (18")	2	VIII.	Electricity—General	
2520	Machine, Reproduction	<u>-</u>		Furnishings	
2955	Pen Set	ī	Code	Item N	lumber
2965	Pencil Pointer, Lead	_		rem ,	- Tullibei
	pencil	1	0165	Bench, Electric (with	
3365	Protractor, Semi-circular		0103	test panel)	1
3495	Punch, Paper	1	1410	• •	_
3925	Scale, Architect's	6	1410	Electricity Demonstration Panel, Teacher's	
3935	Scale, Decimal (civil		1415		1
	engineer's)	1	1415	Electricity Training	3
4590 ⁻	Staple Remover	ī	1400	Panel, Student's	_
4990	Triangle, 30°-60° (8")	6	1420	Electronics Demonstra	_
			4 4 6 7	Panel, Teacher's	1
5005 5000	Triangle, 45° (8")	6	1425	Electronics Training	_
5020	Triangle, Chalkboard	1		Panel, Student's	3
5070	T Square	6			
			IX. G	ieneral Metals—Hand T	ools
VII. E	Electricity—Hand Tools		Code	Item N	lumber
Code	Item Nur	nber			
Jue			0045	Anvil	1
0E7E	Meter, Ammeter (AC)	1	0050	Apron, Foundry	2
/5/5	いっしし ハー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	T	JUJU	APIUII, FUUIIUIY	
2575 25 80	Meter, Ammeter (DC)	1	0055	Apron, Welding	2

37

	₽				•
0145	Bellows, Molder's	1	3505	Punch, Tinner's (set)	1
0265	Bending Jig, Adjustable	1	3575	Rammer, Hardwood	1
0515	Bulb, Sponge	1	3660	Riddle, Foundry	1
0770	Chisel, Cape	2	3665	Rivet Set	2
0780	Chisel, Cold (set)	2 3 3 3	4105	Scriber Hondy	1
0870	Clamp, "C" (3")	3	4110	Seamer, Handy	1
0875	Clamp, "C" (4")	3	4170	Shovel, Square point	2
0880	Clamp, "C" (6")		4250	Snip, Aviation (left)	2
0885	Clamp, "C" (8")	6	4255	Snip, Aviation (right)	_
1140	Cutter, Bolt	1	4260	Snip, Aviation (combination and straight)	2
1325	Drill, Blacksmith (set)	1	AOCE		1
1500	Extractor, Screw (set)	1	4265	Snips, Hawksbill	i
1615	Flask, Foundry (small)	3	4270	Snips, Tin, Curved blade	6
1725	Gauge, Center	1	4390	Sparklighter	1
1735	Gauge, Depth rule	1	4410	Sponge, Bulb	2
1755	Gauge, Drill point	1	4425	Spoon and Gate Cutter	1
1880	Gloves, Asbestos (pair)	1	4475	Sprinkling Can	
1885	Gloves, Leather (pair)	1	4510	Stake, Beakhorn	1
1905	Goggles, Gas welding	2	4520	Stake, Blowhorn	1
1910	Goggles, Melter's	2	4530	Stake, Candle mold	1
2000	Groover, Hand (set)	1	4540	Stake, Coppersmith	
2020	Hammer, Ball peen	_		square	1
	(4 oz.)	3	4555	Stake, Hatchet	1
2030	Hammer, Ball peen	2	4560	Stake, Hollow mandrel	1
	(12 oz.)	3	4570	Stake, Round head	1
2035	Hammer, Ball peen	2	4915	Tongs, Blacksmith,	
	(16 oz.)	3 1	7910	Curved lip	1
2065	Hammer, Chipping	1	4920	Tongs, Crucible	1
2090	Hammer, Engineer's	1	4925	Tongs, Pick-up	1
0100	(40 oz.)	i	4950	Torch, Gas	1
2100	Hammer, Forming	i		Torch, Propane (kit)	1
2110	Hammer, Raising	•	4955	• •	i
2115	Hammer, Riveting, Machinist's	1	5045	Trowel, Foundry	1
2120	Hammer, Setting	2	5050	Trowel, Square, Molder's	1
2120 2135	Hammer, Soft face	2 2	5055	Trowel, Taper (heart)	1
-	Helmet, Welding (hand	_		and leaf, Molder's	1
2140	type)	4	5065	Truck, Welding cylinder	1
2145	Helmet, Welding (head	•	5155	Vise, Sheet metal	1
2143	type)	2	5185	Welder, Arc	1
2400	Ladle, Bottom pour		5200	Welder, Spot (portable)	1
2450	Leggings, Molder's	2	5220	Welding Outfit,	
2625	Micrometer, Outside (1")			Oxyacetylene	1
	Micrometer, Outside (2")	_	5225	Welding Screen, Portable	1
2630 2635	Micrometer, Outside (2")	1		_	
2635		2	X. N	Metals-Machines	-
2710		1			her
3125	•		Code	Item Num	
3135		2	A11F	Por Folder	1
3145	· ·	2	0115		1
3500	Punch, Pin (set)	1	0260	Bender, Universal	•

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0450	Brake, Box and pan	1	2035	Hammer, Ball peen	•
0510	Buffer, Pedestal	1		(16 oz.)	3
1635	Forge, Gas	1	3070	Pliers, Bent nose	2
1650	Forming Roll, Slip	1	3115	Pliers, Hose clamp,	•
1675	Furnace, Bench	1		Radiator and gas line	
1680	Furnace, Crucible	1	3135	Pliers, Needle nose	2
1985	Grinder, Pedestal	1	3165	Pliers, Tru-arc (#2)	1
2415	Lathe, Metalworking (10	-	3170		
2680	Milling Machine, Vertica		4285	Socket, Deep spark plug	_
3235	Press, Arbor	1		(13/16")	1
3680	Rotary Machine,	•	4290	Socket, Deep spark pl	
2262	Combination	1		(11/8")	1
3860	Saw, Hack, Power	1	5280	Wrench, Allen key (hex)	
4130	Shaper, Metal	1		(set)	2
4150	Shear, Squaring foot	1	5290	Wrench, Combination b	
V1 1	Manual Caracal For tall			and open end (set)	1
XI. I	Metals—General Furnishir	ngs	5320	Wrench, Ignition (set)	1
Code	Item Nu	ımber	5335	Wrench, Open end (set)	
			5340	Wrench, Pipe (10")	1
0150	Bench, Arc welding	1	5350	Wrench, Pipe (18")	1
0180	Bench, Welding (gas)	1	5360	Wrench, Socket (%"	•
0205	Bench, Metalworking			drive) (set)	1
	(2 place)	4	5365	Wrench, Socket (½"	•
0212	Bench, Molding	1	-	drive) (set)	1
0225	Bench, Sheet metal (with	th	5420	Wrench, Socket,	
	stake plates)	1		Reversible ratchet	1
0230	Bench, Soldering	1	5425	handle (%" drive) Wrench, Socket,	•
0245	Bench, Wall type	2	3423	Reversible ratchet	
1680	Furnace, Crucible	1		handle (½" drive)	1
			5465	Wrench, Torque (3/8"	-
XII.	Power Mechanics—Hand		J-103	drive)	1
	Tools			univo)	-
Code	Item Nu	umber	XIII.	Power Mechanics—Macl	hines
0005	Adaptor, Socket	2	Code	Item N	<u>umber</u>
0010	Adaptor, Socket	2	1466	Engine Small (2 avale)	. 1
1030	Compressor, Piston ring	g 1	1455	Engine, Small (2-cycle)	
1035	•	-	1460	Engine, Small (4-cycle)	
1220	•	1	1995	Grinder, Valve (set)	1
1605		1	3615	Refacer, Valve (set)	1
1625	-	1			
1730	_ ·	_	XIV.	Power Mechanics—Gene	eral
1760		1		Furnishings	
1810		i	Code	Item N	umber
1830		•		10111	
1030	("feeler")	2	0570	Cabinet, Mechanics,	
1865	•	ī	5575	Rolle:	1
1003	acai i ulici	•		riono.	•
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Application of the second seco

0-4-	oodworking—Hand Tools	mber	3010 3015	Plane, Jack Plane, Jointer	2
Code	Item Nu		3020	Plane, Junior jack	4
0005	Dit Augus (sot)	1	3040	Plane, Smoothing	2
0285	Bit, Auger (set) Bit, Electrician's	1	3735	Rule, Maple (24")	6
0300	Bit, Expansive	1	3820	Saw, Back	2
0305	Bit, Forstner (machine	•	3840	Saw, Compass (set)	2
0320	set)	1	3845	Saw, Coping	4 2 6 2 2 3 1
0330	Bit, Plug cutter (set)	ī	3865	Saw, Hand, Crosscut	
0335	Bit, Screwdriver (set)	ī	3870	Saw, Hand, Rip	1
0430	Brace, Ratchet	2	3980	Scraper, Cabinet	2 2
0520	Burnisher	1	3995	Scraper, Hand	
0775	Chisel, Carving (set)	2	4405	Spokeshave, Straight	1
0790	Chisel, Gouge, Inside		4500	Square, Try (8")	6
	(set)	1	4620	Stop, Bench	6
0805	Chisel, Socket firmer		5070	T Square	2
	(set)	1	3070	, oqua.o	
0835	Chisel, Wood turning	2	XVI.	WoodworkingMachines	
0850	(set) Clamp, Bar (36″)	4	Code	Item Nur	nber
0855	Clamp, Bar (48")	4			
0860	Clamp, Bar (60")	2	2260	Jointer (6")	1
0910	Clamp, Handscrew (#3)		2435	Lathe, Wood turning	2
0915	Clamp, Handscrew (#0	•	3675	Router, Portable,	
0920	Clamp, Handscrew (#1	-	3073	Electric	1
0925	Clamp, Handscrew (#2		3830	Saw, Band, Wood-cutting	1
0930	Clamp, Handscrew (#3		3835	Saw, Circular, Power	1
1065	Countersink Bit (for	•	3885	Saw, Jig (scroll)	1
	brace) (set)	1	3895	Saw, Radial-arm, Power	ī
1350	Drill, Hand (1/4")	1			ī
1355	Drill, Hand (3/8")	1	4 3900	Saw, Sabre (bayonet)	•
1360	Drill Stand, Fractional	1	4660	Surfacer (single surface	1
1375	Drill, Twist, Straight			planer)	•
	shank (fractional set)	1	VV///	Crambia Asta Hand Too	le
1710	Gauge, Auger bit	1	XVII.	Graphic Arts—Hand Too	13
1775	Gauge, Marking	3	Code	Item Nu	mber
2070	Hammer, Claw (7 oz.)	2			
2080	Hammer, Claw (13 oz.)	3	0400	Bone Folder	3
2085	Hammer, Claw (16 oz.)	3	0410	Borders, Decorations,	
2245	Jig, Dowelling	1	-	Miscellaneous	1
2465	Level	1	0720	Can, Safety (1 quart)	2
2690	Mitre Box	1	0760	Chases, Platen	6
2800	Nail Set (1/16" tip)	3	1000	Composing Stick (6")	6
2835	Nipper, End cutting	1	1005	Composing Stick (10")	3
	Oilstone, Carving tool	•	1155	Cutter, Lead and slug	1
2885		1	1160	Cutter, Linoleum (set)	2
2000	slips (set)	1	1200	Cutter, Paper	1
2900	Oilstone, Gouge slip	1		Fountain Pen (technical	•
000=					
2905 3000	Oilstone, Slip Plane, Block	2	1655	set)	1

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1690	Furniture, Wood, Fonts	1	4375	Spaces, Assorted fonts	
1765	Gauge, Line (12")	3		(24 point)	1
1790	Gauge, Pin (sets)	6	4380	Spaces, Assorted fonts	
2335	Knife, Ink	2		(30 point)	1
2375	Knife, Stencil	2	4385	Spaces, Assorted fonts	
2440	Leads (2 point)			(36 point)	1
	(25 lb. pkg.)	1	4590	Staple Remover	1
2460	Lettering Set	1	4995	Triangle, 30°-60° (8")	2
2860	Numbering Machine, Pres	s 1	5005	Triangle, 45° (8")	2 2 2
2955	Pen Set	1	5070	T Square	2
2965	Pencil Pointer, Lead		5085	Tweezers, Type	2
	pencil	1	5090	Type (see specifications	
3045	Planer, Type	2		for listing)	
3495	Punch, Paper	1		•	
3525	Quoin, Hispeed	12	XVIII.	Graphic Arts—Machines	
3530	Quoin Key, Hispeed	2	Code	Item Num	ber
3620	Reglets, Wood Font	1			
3685	Rule, Brass	1	3045	Planer, Type	1
3925	Scale, Architect's	6	3275	Press, Padding	1
4195	Silk Screen Unit	1	3280	Press, Platen	1
4235	Slugs (6 point)		3290	Press, Platen, Hand	
	(25 lb. pkg.)	1		lever	1
4345	Spaces, Assorted fonts		3295	Press, Proof	1
	(6 point)	1	3305	Press, Rubber stamp	1
4350	Spaces, Assorted fonts		3320	Printmaker, Graphic arts	1
	(8 point)	1	4600	Stapler, Saddle	1
4355	Spaces, Assorted fonts		•	·	
	(10 point)	1	XIX.	Graphic Arts—General	
4360	Spaces, Assorted fonts			Furnishings	
	(12 point)	1	Code	Item Num	hor
4365	Spaces, Assorted fonts			item itum	
	(14 point)	1	0600	Cabinet, Proof press	1
4370	Spaces, Assorted fonts	_	0630	Cabinet, Type, Double tier	1
70/0	(18 point)	1	2205	Imposing Stone Table	1
	(10 hour)	-		mpooning otonio rabio	-

GRAPHIC ARTS

	Introductory			Advanced				
I. Basic Equipment		I. Ba						
Code	ltem	Number	Code	ltem	Number			
			0015	Airbrush	1			
0280	Binding Unit, Plastics	s 1	0280	Binding Unit, Plastic	s 1			
0360	Block, Proofing	2	0360	Block, Proofing	2			
0390	Boards, Pressing	4	0390	Boards, Pressing	4			
			0670	Camera, Copying	1			
0675	Camera, Range finde	er	0675	Camera, Range finde	er			
	(35mm)	1		(35mm)	1			

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0680 0685 1155 1200 1210 1330 1390	Camera (35mm) Single lens reflex Camera, Reflex, Twin lens Cutter, Lead and slug Cutter, Paper Cutter, Round corner Drill, Electric, Portable (1/4") Dryer, Print	1 2 1 1 1	0680 0685 1155 1200 1210 1230 1330 1390 1395	Camera, Reflex, Twin	1 2 1 1 1 1 1
1475	Enlarger, Photographic	1	1475	Stencil Enlarger, Photographic	1 2 1
1530	Ferrotype Plate	4	1490 1530	Exposure Frame Ferrotype Plate	4
1930	Terrotypo Tiato		1580 1630	Filter, Photo (set) Folding Machine	1
1005	Olive Det	1	1895	Glue Pot	1
1895	Glue Pot Hot Plate, Electric	i	2190	Hot Plate, Electric	1
2190 2205	Imposing Stone Table	ī	2205	Imposing Stone Table	1
2205	imposing Stone rabio	_	2255	Jogger, Paper	1
2600	Meter, Light	1.	2600	Meter, Light	1
2685	Mitering Machine	1	2685	Mitering Machine	1
2850	Numbering Machine,		2850	Numbering Machine,	•
2000	Cleaner box	1		Cleaner box	1
2855	Numbering Machine, Hand	1	2855	Numbering Machine, Hand	1
2860	Numbering Machine,		2860	Numbering Machine,	2
	Press	2		Press	1
2930	Pad Counter	1	2930	Pad Counter	1
		_	2990	_	4
3045		4	3045		1
3062		1	3062	_ •	ī
3245	• • • • • • • • • • • • • • • • • • • •	1	3245 3260		ī
3260		1	3270		1
3270		1	3275		1
3275		1	3275	· .	1
3280	Press, Platen	1	3285		1
3290	Press, Platen, Hand lever	2	3290		2
3295		1	3295	Press, Proof	1
3273	, 11699, 11001	_	3300	Press Proof,	4
				Reproduction	1
3305	Press, Rubber stamp	1	3305		1
3310		1	3310		1
3320	ملسمانا کا ا	1	3320	Printmaker, Graphic arts	1
3320	A Little Handle A Cale Hand Co. Co.				

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3340	Projector, Filmstrip (35mm) and slide		3340	Projector, Filmstrip (35mm) and slide	
	(2" x 2")	1		(2" x 2")	1
3345	Projector, Motion	_	3345	Projector, Motion	
	picture, Sound	1		picture, Sound	1
3350	Projector, Overhead	1	3350	Projector, Overhead	1
3495	Punch, Paper	1	3495	Punch, Paper	1
3525	Quoin, Hi-speed	48	3525	Quoin, Hi-speed	48
3530	Quoin Key, Hi-speed	4	3530	Quoin Key, Hi-speed	4
4195	Silk Screen Unit	2	4195	Silk Screen Unit	2
4200	Sinks, Developing	<u>-</u>	4200	Sinks, Developing	1
4205	Sinks, Platemaking	ī	4205	Sinks, Platemaking	1
4600	Stapler, Saddle	ī	4600	Stapler, Saddle	1
4650	String Holder, Cone	1	4650	String Holder, Cone	1
4730	Tanks, Film developmen		4730	Tanks, Film developme	nt 5
4885	Thermometer,		4885	Thermometer,	
	Photographic	2		Photographic	2
4905	Timer, Photographic		4905	Timer, Photographic	
	(electric)	2		(electric)	2
4910	Timer, Photographic		4910	Timer, Photographic	
	(spring wound)	2		(spring wound)	2
4985	Tray, Photographic	12	4985	Tray, Photographic	12
5035	Trimmer, Paper	1	5035	Trimmer, Paper	1
			5060	Truck, Bindery	1
5090	Type, Assorted (see specifications for		5090	Type, Assorted (see specifications for	
	actual listing)			actual listing)	•
			5095	Typesetter, Linecasting	1
			5100	Typesetter, Photo-	4
			_*	headsetter	1
		_	5105	Typewriter, Electric	1
5110	Typewriter, Standard	1			_ 1
			5115	Vacuum Printing Frame	e 1
	and Tools and Miscellane	ous		and Tools and Miscelland	eous
Code	Item Nu	mber	Code	Item N	umber
0052	Apron, Rubber	2	0052	Apron, Rubber	2
0080	Awl, Bookbinder's	2	0800	Awl, Bookbinder's	2
040G	Bone Folder	8	0400	Bone Folder	8
	Brayer, Block printing	2	0460	Brayer, Block printing	2
0460	• •	2	0485	Brush, Flat padding	2
0485	Brush, Flat padding				2
0475	Brush, Bookbinder's	2	0475	Brush, Bookbinder's	6
0490	Brush, Opaque	6	0490	Brush, Opaque	
			0495	Brush, Type	2
0740	Cards, Alphabet (set)	2	0740	Cards, Alphabet (set)	2
0760	Chases, Platen	12	0760	Chases, Platen	12
1000	Composing Stick (6")	24	1000	Composing Stick (6")	24
	•				43

			4005	Owner size Stick (100)	6
1005	Composing Stick (10")	6	1005	Composing Stick (10")	6 2
1010	Composing Stick (12")	2	1010	Composing Stick (12")	1
1015	Composing Stick (15")	1	1015	Composing Stick (15")	1
1020	Composing Stick,	_	1020	Composing Stick,	1
	Micrometer knee (10")	1		Micrometer knee (10")	6
1160	Cutter, Linoleum (set)	6	1160	Cutter, Linoleum (set)	1
1250	Die, Letter (set)	1	1250	Die, Letter (set)	i
1255	Die, Number (set)	1	1255	Die, Number (set)	1
1 26 0	Dispenser, Cellophane		1260	Dispenser, Cellophane	3
	tape	3	1070	tape	
1270	Dispenser, Gummed paper	1	1270	Dispenser, Gummed paper	1
1350	Drill, Hand (1/4")	1	1350	Drill, Hand (1/4")	i
1355	Drill, Hand (3/8")	1	1355	Drill, Hand (%")	i
1360	Drill Stand, Fractional	1	1360	Drill Stand, Fractional	•
1375	Drill, Twist, Straight	•	1375	Drill, Twist, Straight	1
	shank (fractional set)	1	1540	shank (fractional set)	•
1540	File (see specifications		1540	File (see specifications for set detail)	
	for set detail)	•	1550	File Card and Brush	1
1550	File Card and Brush	1	1550	Furniture, Wood, Fonts	4
1690	Furniture, Wood, Fonts	4	1690	Galley (10" x 16")	6
			1695 1700	Galley (8½" x 13")	100
	a a b't	1	1710	Gauge, Auger bit	1
1710	Gauge, Auger bit	1	1765	Gauge, Auger Dit Gauge, Line (12")	12
1765	Gauge, Line (12")	12 6	1770	Gauge, Line (12")	6
1770	Gauge, Line (18")	6	1790	Gauge, Pin (sets)	6
1790	Gauge, Pin (sets)	1	1840	Gauge, Type high	1
1840	Gauge, Type high	1	1855	Gauge, Wire and sheet	
1855	Gauge, Wire and sheet	1	1033	metal (American)	1
1060	metal (American)	•	1860	Gauge, Wire and sheet	
1860	Gauge, Wire and sheet	1	2000	metal (U.S.S.)	1
1000	metal (U.S.S.) Gloves, Thick rubber	2	1892	Gloves, .nick rubber	2
1892	Graduate, Darkroom	6	1925	Graduate, Darkroom	6
1925	Graduate, Darkitooni Grease Gun	ĭ	1930		1
1930 2050	Hammer, Bookbinder's	-	2050		
2030	backing	2		backing	2
2085	Hammer, Claw (16 oz.)	<u></u>	2085		1
2335	Knife, Ink	12	2335		12
2345			2345		
2545	stripping	12		stripping	12
2355	Knife, Padding	2	2355	Knife, Padding	2
2480	Light, Darkroom	4	2480	Light, Darkroom	4
2485	Light, Flood	4	2485	Light, Flood	4
2495		25	2495	Locks, Magnetic galley	25
2525		4	2525		4
2540		2	2540		2
2560			2560	Marker, Felt-tip, Color	_
	(set)	6		(set)	6
2810		24	2810		24
2865		4	2865		4
2870	· _	4	2870	Oiler, Pump	4
	· •				

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2890	Oilstone, Combination,		2890	Oilstone, Combination,	_
	India	1		India	1
2895	Oilstone, Combination,	_	2895	Oilstone, Combination,	•
	Silicon carbide	1		Silicon carbide	1
3085	Pliers, Combination (6")		3085	Pliers, Combination (6")	2
3170	Pliers, Vise-grip wrench	2	3170	Pliers, Vise-grip wrench	2
3730	Rule, Make∙up	12	3730	Rule, Make-up	12
3820	Saw, Back	1	3820	Saw, Back	1
3890	Saw, Printer's trim	1	3890	Saw, Printer's trim	1
3965	Scissors	6	3965	Scissors	6
4015	Screens, Halftone,		4015	Screens, Halftone,	_
	Contact	6		Contact	6
4070	Screwdriver, Standard		4070	Screwdriver, Standard	
	bit (round blade) (se	t) 6		bit (round blade) (set)	6
4210	Siphon, Photo	1	4210	Siphon, Photo	1
4355	Spaces, Assorted fonts		4355	Spaces, Assorted fonts	
	(10 point) (see speci	fi-		(10 point) (see specifi-	
	cations for listing)			cations for listing)	
4360	Spaces, Assorted fonts		4360	Spaces, Assorted fonts	
	(12 point) (see speci			(12 point) (see specifi-	
	fications for listing)			fications for listing)	
4370	Spaces, Assorted fonts		4370	Spaces, Assorted fonts	
	(18 point) (see speci	fi-		(18 point) (see specifi-	
	cations for listing)			cations for listing)	
4490	Square, Steel framing	1	4490	Square, Steel framing	1
4595	Stapler, Hand	1	4595	Stapler, Hand	1
4990	Triangle, 30°-60° (8")	8	4990	Triangle, 30°.60° (8")	8
5000	Triangle, 45° (6")	8	5000	Triangle, 45° (6")	8
5070	T Square	4	5070	T Square	4
5085	Tweezers, Type	12	5085	Tweezers, Type	12
5255	Wrench, Adjustable end	j	5255	Wrench, Adjustable end	
	(6")	1		(6")	1
5360	Wrench, Socket (%"		5360	Wrench, Socket (%"	
	drive) (set)	1		drive) (set)	1
5365	Wrench, Socket (1/2"		5365	Wrench, Socket (1/2"	
	drive) (set)	1		drive) (set)	1
	, , ,				
	Samuel Eurojohingu		III. G	General Furnishings	
III. G	General Furnishing:			••	_
Code	Item N	umber _	Code	Item Nun	nber
0155	Bench, Bookbinding		0155	Bench, Bookbinding	
0133	(unit)	1	0100	(unit)	1
	(unit)	•	0160	Bench, Demonstration	
0405	Bookcase	1	0405	Bookcase	1
-		3	0465		1 1 3
0465	Broom, Push	12	0470		12
0470	Brush, Bench	1	0535		1
0535	Cabinet, Drying rack	1	0540		ī
0540	Cabinet, Filing	1	0545		ī
<u> AEEA</u>	Cabinat Galley	2	0550	Cabinet, Galley	2
0550	Cabinet, Galley	~	9550	caulity, calley	_
					45

		•	۸۶۶۸	Cabinet, Ink and roller	1
0560	Cabinet, Ink and roller	1	0560 0505	Cabinet, Plate filing	ī
0595	Cabinet, Plate filing	1	0595	Cabinet, Quarter case	ī
0605	Cabinet, Quarter case	1	0605		i
0620	Cabinet, Storage	1	0620	Cabinet, Storage	•
0635	Cabinet, Type, Single	_	0635	Cabinet, Type, Single	4
	tier	2		tier	
0710	Can, Oily waste	2	0710	Can, Oily waste	2 2 2 1
0720	Can, Safety (1 qt.)	2	0720	Can, Safety (1 qt.)	2
0725	Can, Safety (1 gal.)	2	0725	Can, Safety (1 gal.)	1
0728	Can, Safety (5 gal.)	1	0728	Can, Safety (5 gal.)	i
0755	Chair, Teacher's	1	0755	Chair, Teacher's	1
1025	Compressor, Air	1	1025	Compressor, Air	1
1045	Container, Benzene		1045	Container, Benzene	4
	(1 pt.)	4		(1 pt.)	4
1050	Container, Benzene		1050	Container, Benzene	2
	(1 gal.)	2		(1 gal.)	2
1055	Container, Benzene		1055	Container, Benzene	•
	(5 gal.)	1		(5 gal.).	1
1235	Desk, Teacher's	1	1235	Desk, Teacher's	1
1592	Fire Blanket	1	1592	Fire Blanket	1
1593	Fire Extinguisher	3	1593	Fire Extinguisher	3
1600	First Aid Kit	1	1600		1
1900	Goggles (spectacles),		1900	Goggles (spectacles),	_
2555	Clear observation	6		Clear observation	6
2932	Pan, Dust	1	2932	Pan, Dust	1
2980	Pencil Sharpener,		2980	Pencil Sharpener,	•
2300	Standard	1		Standard	1
3560	Rack, Roll, Tympan	1	3560	Rack, Roll, Tympan	1
3565	Rack, Roll, Wrapping		3565	Rack, Roll, Wrapping	_
3303	paper	1		paper	1
4010	Screen, Projection	1	4010	Screen, Projection	1
4165	Shield, Face	3	4165		3
4680	Table, General purpose	3	4680	Table, General purpose	3
4685	Table, Opaquing	4	4685		4
4690	Table, Overhead projector	_	4690	Table, Overhead projector	1
4695		2	4695	 .	2
	· - ·	ī	4720	_	1
4720	Table, Typewiller	-		•	

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METALWORKING

Introductory			Advanced				
i. Fabricating Machines and Accessories		I. Fabricating Machines and Accessories					
Code	Item	Number	Code	Item	Number		
0115 0260	Bar Folder Bender, Universal	1	0060 0115 0260	Arbor, Milling machir Bar Folder Bender, Universal	ne 2 1 1		

0450	Proko Dov and non	•	0415		2
V-30	Brake, Box and pan	1	0450	= · · · · · · · · · · · · · · · · · · ·	1
0510	Buffer, Pedestal	1	0505	Buffer, Long arm	1
	,	_	0840	Chuck, Magnetic	1
			1170		_
				End (set)	1
			1175	Cutter, Milling machine,	
				Gear tooth, Involute	
			4400	(set)	1
			1180	Cutter, Milling machine,	_
			1185	Helical, Plain	1
			1103	Cutter, Milling machine, Shell and arbor	•
			1190	Cutter, Milling machine,	1
			1130	Slitting	1
1225	Cutting-Off Tool, Lathe	6	1225	Cutting-Off Tool, Lathe	6
1330	Drill, Electric,		1330	Drill, Electric,	U
	Portable (1/4")	1		Portable (1/4")	1
			1335	Drill, Electric,	_
				Portable (%")	1
			1340	Drill, Electric,	
1420		_	4 4 5 5	Portable (1/2")	1
1430	Electroplating Unit	1	1430	Electroplating Unit	1
1650	Forming Roll, Slip	1	1635	Forge, Gas	1
1680	Furnace, Crucible	1 1	1650 1680	Forming Roll, Slip	1
1685	Furnace, Heat treating	1	1685		1
	ramass, rical treating	-	1975	Furnace, Heat treating Grinder, Heavy duty	1
			2375	pedestal	1
1985	Grinder, Pedestal	1	1985	Grinder, Pedestal	i
			1990	Grinder, Surface	ī
			2210	Indicator, Dial test	2
			2275	Jolt Squeezer, Foundry	1
			2385	Knurling Tool, Lathe	
				(coarse)	6
			2390	Knurling Tool, Lathe (fine)	6
			2395	Knurling Tool, Lathe	
0415	1 11 14 14			(medium)	6
2415	Lathe, Metalworking	•	2415	Lathe, Metalworking	
	(10")	3		(10")	6
			2420	Lathe, Metalworking	
			0430	(14")	2
			2430 2550	Lathe, Spinning (12")	1
			2550 2555	Mandrel, Expansion (set)	2
			2555 2670	Mandrel Set	1
			2670	Milling Machine,	•
			2675	Horizontal	1
			2675	Milling Machine, Universal	1
				Ollivei 201	1
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3250	Press, Drill (15")	2	2920 3235 3250 3255 3680 3765 3770 3825	Milling Machine, Vertical Oven, Core Press, Arbor Press, Drill (15") Press, Drill (17") Rotary Machine, Combination Sand Blaster Sand Muller Saw, Band (power), Metal cutting	1 1 1 1 1 1 1
3860	Saw, Hack (power)	1	3860 4120 4130 4145	Saw, Hack (power) Setting Down Machine Shaper, Metal Shear, Ring and circle	1 1 1 1 1 1
4150	Shear, Squaring foot	1	4150		1
4455	Spray Gun Outfit	1	4455		1
1100			4810		1
			4835		1
4935	Tool Holder, Lathe		4935	Tool Holder, Lathe	6
	(left hand)	6	40.40	(left hand)	U
4940	Tool Holder, Lathe	•	4940	Tool Holder, Lathe	6
	(right hand)	6	4045	(right hand) Tool Holder, Lathe	•
4945	Tool Holder, Lathe	c	4945	(straight)	6
	(straight)	6	4890		
	-	2	4950		2
4950	Torch, Gas	2 1	5185		2 2 1 1
5185	Welder, Arc	•	5190	Welder, MIG	1
E10E	Wolder Spot	1	5195	Welder, Spot	1
5195	Welder, Spot	-	5205	Welder, TIG	1
5220	Welding Outfit,		5220		
5220	Oxyacetylene	1	02	Oxyacetylene	1
11. H	land Tools and Equipm			land Tools and Equipment	mber
Code	Item	Number	Code	Item Nu	
0045	Anvil	1	0045	Anvil	1
0050		2	0050	Apron, Foundry	2
0052		1	0052	Apron, Rubber	2
0055		2	0055	Apron, Welding	2
0090		4	0090		4
0145		i	0145		1
0145	·	3	0465		3
0470		12	0470		12
		6	0500		6
0500		1	0515		1
0515	Bulb, Sponge	•	0640		2

ERIC Full Text Provided by ERIC

					_
0645	Caliper, Inside (6")	6	0645	Caliper, Inside (6")	6
0655	Caliper, Outside (6")	6	0655	Caliper, Outside (6")	6 2
			0660	Caliper, Outside (8")	1
		•	0665	Caliper, Vernier Can, Oily waste	1 1 2 2 2
0710	Can, Oily waste	1 2	0710 0720		2
0720	Can, Safety (1 qt.)	2	0725	Can, Safety (1 gal.)	2
0725	Can, Safety (1 gal.)	2	0770	Chisel, Cape	2
0770	Chisel, Cape	1	0780	Chisel, Cold (set)	2
0780 0785	Chisel, Cold (set) Chisel, Diamond point	•	0785	Chisel, Diamond point	
0/65	(set)	1		(set)	2
0800	Chisel, Round nose (set)	1	0800	Chisel, Round nose (set)	2
0875	Clamp, "C" (4")	4	0875	Clamp, "C" (4")	4
0880	Clamp, "C" (6")	4	0880	Clamp, "C" (6")	4
0885	Clamp, "C" (8")	4	0885	Clamp, "C" (8")	4
	·		0890	Clamp, "C" (10")	4 4
0895	Clamp, "C" (12")	2	0895	Clamp, "C" (12")	4
1065	Countersink, Bit (for	•			
	brace) (set)	1			
1070	Countersink, High speed	1 2	1095	Crucible (#4)	2
1095	Crucible (#4)	2	1100	I 44 = = -	2
1100	Crucible (#10) Crucible Hand Shank	~	1110	Crucible Hand Shank	
1110	(#10)	1		(#10)	1
1112	Crucible Hand Shank	-	1112	Crucible Hand Shank	
1112	(#4)	1		(#4)	1
1115	Crucible Lifter	1	1115	Crucible Lifter	1
1120	Crucible Ring Shank	1	1120	Crucible Ring Shank	1
1140	Cutter, Bolt	1	1140	Cutter, Bolt	1
			1205	Cutter, Pipe	1
1215	Cutter, Sprue	1	1215	Cutter, Sprue	1
1245	Die, Dapping	1	1245	Die, Dapping	1
1250		1	1250	Die, Letter (set)	1
1255		1	1255	Die, Number (set)	1
	J.O., V.D		1290	Divider, Spring (4")	2
1295	Divider, Spring (6")	6	1295	Divider, Spring (6")	4
			1300	Divider, Spring (8")	2
1320	Dresser, Abrasive wheel	1	1320	Dresser, Abrasive wheei	1 1
1350		1	1350	Drill, Hand $(\frac{1}{4}'')$	1
1355		1	1355	Drill, Hand (%")	1
1360		1	1360	Drill Stand, Fractional	1
1365			1365	Drill, Twist (letter	•
	set)	1		set)	1
1370		1	1370		1
1375	Drill, Twist, Straight		1375		1
	shank (fractional set)	1.	_	shank (fractional set)	1
1380	Drill, Twist, Taper		__ 1380		1
	shank (fractional set)	1	4=4-	shank (fractional set)	1
1500	Extractor, Screw (set)	1	1500	Extractor, Screw (set)	1
					49

1540	Files (see specifications		1540	Files (see specifications	
20.0	for set detail)			for set detail)	6
1550	File Card and Brush	6	1550	File Card and Brush	6
1610	Flask, Foundry (large)	4	1610	Flask, Foundry (large)	4
1615	Flask, Foundry (small)	4	1615	Flask, Foundry (small)	4
1725	Gauge, Center	3	1725	Gauge, Center	6
	3 .,		1755	Gauge, Drill point	1
•			1785	Gauge, Micrometer, Depth	1
			1795	Gauge, Radius and fillet	1
1800	Gauge, Screw pitch	1	1800	Gauge, Screw pitch	1
			1805	Gauge, Small hole	1
			1820	Gauge, Surface	1
			1825	Gauge, Telescopic	1
1830	Gauge, Thickness		1830	Gauge, Thickness	1
	("feeler")	1	_	("feeler")	1 1
	•		1850	Gauge, Vernier height	1
1855	Gauge, Wire and sheet		1855	Gauge, Wire and sheet	1
	metal (American)	1		metal (American)	1
1860	Gauge, Wire and sheet		1860	Gauge, Wire and sheet	1
	metal (U.S.S.)	1		metal (U.S.S.)	1 2
1880	Gloves, Asbestos (pair)	2	1880	Gloves, Asbestos (pair)	6
1885	Gloves, Leather (pair)	4	1885	Gloves, Leather (pair)	0
1892	Gloves, Thick rubber		1892	Gloves, Thick rubber	2
	(pair)	2		(pair)	2
1900	Goggles (spectacles),		1900	Goggles (spectacles),	24
	Clear observation	24		Clear observation	24
1905	Goggles, Gas welding	3	1905	Goggles, Gas welding	3 2
2000		2	2000	Groover, Hand (set)	2
2025	Hammer, Ball peen		2025	Hammer, Ball peen	2
	(8 oz.)	2	0000	(8 oz.)	£-
2030	Hammer, Ball peen		2030	Hammer, Ball peen	4
	(12 oz.)	4	2025	(12 oz.)	•
2035		•	2035	Hammer, Ball peen	2
	(16 oz.)	2	2040	(16 oz.) Hammer, Ball peen	_
			2040	(30 oz.)	2
			2045	Hammer, Ball peen	_
			2045	(32 oz.)	2
			2065		2
			2099		
2090		2	2090	(40 oz.)	2
	(40 oz.)	2	2095		
2095		1	2033	(48 oz.)	1
	(48 oz.)	1	2115		
2115		2	:	Machinist's (9 oz.)	2
	Machinist's (9 oz.)	4	2130		
2130		2	2130	(4 oz.)	2
A	(4 OZ.)	4	2135		
2135		2	2133	(8 oz.)	2
	(8 oz.)	4	2145		
2145		2		(head type)	2
	(head type)	6-		· · · · · · ·	

ERIC Full Toxic Provided by ERIC

0450			0.450		
2450	Leggings, Molder's	_	2450	Leggings, Molder's	_
2525	(pair)	2	0E2E	(pair)	2
2535 2540	Mallet, Hardwood	4	2535 2540	Mallet, Hardwood	4
	Mallet, Rawhide	4 2	2540 2545	Mallet, Rawhide	2
2545 2620	Mallet, Rubber Micrometer, Inside (set)	1	2545 2620	Mallet, Rubber	1
2625	Micrometer, Miside (set) Micrometer, Outside (1")	4	2625	Micrometer, Inside (set) Micrometer, Outside (1")	6
2630	Micrometer, Outside (1")	2	2630	Micrometer, Outside (1")	2
2635	Micrometer, Outside (2")	1	2635	Micrometer, Outside (2")	
2033	Wilcioineter, Outside (5)	•	2650	Micrometer, Outside (3)	•
			2030	(screw thread)	1
			2655	Micrometer, Outside	•
			2000	(screw thread)	1
2710	Mold, Ingot	1	2710	Mold, Ingot	1
2835	Nipper, End cutting	1	2835	Nipper, End cutting	1
2865	Oiler, Bench	12	2865	Oiler, Bench	12
2890	Oilstone, Combination,		2890	Oilstone, Combination,	
	India	2		India	2
2932	Pan, Dust	1	2932	Pan, Dust	1
			2945	Parallels, Adjustable	
				(set)	1
2980	Pencil Sharpener,		2980	Pencil Sharpener,	
	Standard	1		Standard	1
			3055	Plate, Angle	2
2005	Diam Carlington (CI)	_	3060	Plate, Surface	1
3085	Pliers, Combination (6")	6	3085	Pliers, Combination (6")	6 4
3090	Pliers, Combination (8")	4	3090	Pliers, Combination (8")	
3100 3135	Pliers, Diagonal cutting Pliers, Needle nose	2	3100 3135	Pliers, Diagonal cutting Pliers, Needle nose	2
3155 3155	Pliers, Straight nose	2	3155	Pliers, Straight nose	2
3170	Pliers, Vise-grip wrench	2	3170	Pliers, Vise-grip wrench	
3455	Punch, Center (set)	4	3455	Punch, Center (set)	2 6
3475	Punch, Drive (set)		3475	Punch, Drive (set)	1
3485	Punch, Hollow (set)	1 1	3485	Punch, Hollow (set)	1
3575	Rammer, Hardwood	2	3575	Rammer, Hardwood	2
3580	Reamer, Center (set)	1	3580	Reamer, Center (set)	1
			3595	Reamer, Expansion (set)	1
3600	Reamer, Pipe	1	3600	Reamer, Pipe	1 2
3660	Riddle, Foundry	2	3660	Riddle, Foundry	
3665	Rivet Set (set)	4	3665	Rivet Set (set)	4
3690	Rule, Circumference	_	3690	Rule, Circumference	_
	(36'')	2		(36")	2
3710	Rule, Flexible, Steel	_	3710	Rule, Flexible, Steel	2
	tape (12')	2	9765	tape (12')	2
			3725	Rule, Hook	4
	D. I. Ob. 1 /6/0	_	3740	Rule, Short (set)	1
3745	Rule, Steel (6")	6	3745	Rule, Steel (6")	8
3750	Rule, Steel (12")	12	3750	Rule, Steel (12")	12
3755	Rule, Steel (24")	2	3755	Rule, Steel (24")	2
3850	Saw, Hack (hand)	6	3850	Saw, Hack (hand)	6
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	•				
3875	Saw, Jeweler's (4")	2	3875	Saw, Jeweler's (4")	2
3880	Saw, Jeweler's (6")	4	3880	Saw, Jeweler's (6")	4
3965	Scissors	1	3965	Scissors	1
			4035	Screwdriver, Offset, Phillips (set)	1
4045	Screwdriver, Offset,	1	4045	Screwdriver, Offset, Straight slot (set)	1
4050	Straight slot (set)	1	4050	Screwdriver, Phillips	_
4050	Screwdriver, Phillips (set)	1	7030	(set)	1
4070	Screwdriver, Standard		4070	Screwdriver, Standard	_
	bit (round blade) (set)	2		bit (round blade) (set)	2
4105	Scriber	6	4105	Scriber	6
4110	Seamer, Handy	2	4110	Seamer, Handy	2
4165	Shield, Face	12	4165	Shield, Face	12
4170	Shovel, Square point	1	4170	Shovel, Square point	1
4222	Sleeves, Molder's	1	4222	Sleeves, Molder's	1
4225	Slick and Oval (1")	1	4225	Slick and Oval (1")	1
4230	Slick and Oval $(1\frac{1}{4})$	1	4230		1
4250	Snip, Aviation (left)	2	4250	Snip, Aviation (left)	2
4255	Snip, Aviation (right)	2	4255	Snip, Aviation (right)	2
4260	Snip, Aviation (com-		4260	Snip, Aviation (com-	2
	bination and straight)	2	4005	bination and straight)	2 1
4265	Snips, Hawksbill	1	4265	Snips, Hawksbill	1
4275	Snips, Tinner's,		4275	Snips, Tinner's,	4
	Straight (#8)	4	4200	Straight (#8) Snips, Tinner's,	•
4280	Snips, Tinner's,	2	4280	Straight (#10)	2
4005	Straight (#10)	2	4295	Soldering Copper,	_
4295	Soldering Copper,	1	7233	Electric (60W)	1
4300	Electric (60W) Soldering Copper,	•	4300	Soldering Copper,	
4300	Electric (200W)	1		Electric (200W)	1
	Electric (Ecott)		4305	Soldering Copper, Electric (300W)	1
421E	Soldering Conner (pair)		4315	Soldering Copper (pair)	
4315	Soldering Copper (pair) (½ lb.)	4	4010	(½ lb.)	2
4320	Soldering Copper (pair)		4320	Soldering Copper (pair)	
4020	(1 lb.)	2		(1 lb.)	2
4325	Soldering Copper (pair)		4325	Soldering Copper (pair)	
	(1½ lb.)	1		$(1\frac{1}{2} \text{ lb.})$	1
4390	Sparklighters	6	4390	Sparklighters	6
4480	Square, Combination	6	4480	Square, Combination	6
4485	Square, Combination set		4485	Square, Combination set	
	(with protractor and			(with protractor and	
	center head)	1		center head)	1
4510	Stake, Beakhorn	1	4510	Stake, Beakhorn	1
	•		4515	Stake, Bevel edge square	1
4520	Stake, Blowhorn	1	4520	Stake, Blowhorn	1

ERIC Full Test Provided by ERIC

					_
			4525	Stake, Bottom	1
4530	Stake, Candle mold	1	4530	Stake, Candle mold	1
			4535	Stake, Conductor	1
			4545	Stake, Double seaming	1
			4550	Stake, Grooving	ï
4555	Stake, Hatchet	1	4555	Stake, Hatchet	1
4560	Stake, Hollow mandrel	1	4560	Stake, Hollow mandrel	1
			4565	Stake, Needle case	1
			4570	Stake, Round head	1
4755	Tap and Die, Machine		4755	Tap and Die, Machine	1
	screw (set)	1	4=66	screw (set)	1
4760	Tap and Die, NC (U.S.	•	4760	Tap and Die, NC (U.S.	1
	standard) (set)	1	4765	standard) (set)	•
4765	Tap and Die, NF (S.A.E.)	1	4765	Tap and Die, NF (S.A.E.) (set)	1
4	(set)	1	4770	Tap and Die, Pipe (set)	1
4770	Tap and Die, Pipe (set)	1	4770 4915	Tongs, Blacksmith,	•
4915	Tongs, Blacksmith,	2	4910	Curved lip	2
4005	Curved lip	2	4925	Tongs, Pick-up	2
4925	Tongs, Pick-up Trammel Points	1	4965	Trammel Points	1
4965	Trammer Points	1	5045	Trowel, Foundry	1
FACE	Truck Wolding owlinder	1	50 4 5	Truck, Welding cylinder	1
5065	Truck, Welding cylinder	1	5120	V Block and Clamps (set)	
5120	V Block and Clamps (set)	1	5130	Vise, Angle, Drill	2
5130 5135	Vise; Angle, Drill Vise, Bench, Drill	2	5135	Vise, Bench, Drill	2
5135	Vise, Machinist's bench	12	5140	Vise, Machinist's bench	12
		1	5150	Vise, Pin (set)	1
5150 5152	Vise, Pin (set) Vise, Pipe	1	5152	Vise, Pipe	1
5152 5255	Wrench, Adjustable end	•	5255	Wrench, Adjustable end	
3233	(6")	2	0200	(6")	2
5260	Wrench, Adjustable end	_	5260	Wrench, Adjustable end	
3200	(8")	2	0_00	(8")	2
	(-)		5265	Wrench, Adjustable end	
				(10")	2
			5270	Wrench, Adjustable end	_
				(12")	2
5280	Wrench, Allen key (hex)		5280	Wrench, Allen key (hex)	
	(set)	1		(set)	1
5285	Wrench, Box (set)	1	5285	Wrench, Box (set)	1
5335	Wrench, Open end (set)	1	5335	Wrench, Open end (set)	1
5340	Wrench, Pipe (10")	1	5340	Wrench, Pipe (10")	1
	, <u>, , , , , , , , , , , , , , , , , , </u>		5345	Wrench, Pipe (14")	1
			5350	Wrench, Pipe (18")	1
5360	Wrench, Socket (%"		5360	Wrench, Socket (3/8"	
33 0 0	drive) (set)	1	3500	drive) (set)	1
5365	Wrench, Socket (½"	-	5365	Wrench, Socket (1/2"	
5505	drive) (set)	1	3000	drive) (set)	1
	u, (001)	_		, , ,	
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III. G	eneral Furnishings		III. G	eneral Furnishings	
Code	Item	Number	Code	Item	Number
0150	Bench, Arc welding	1	0150	Bench, Arc welding	2
0180	Bench, Gas welding	1	0180	Bench, Gas welding	2
0195	Bench, Machine	1	0195	Bench, Machine	1
0205	Bench, Metalworking (2 place)	2	0205	Bench, Metalworking (2 place)	2
0210	Bench, Metalworking (4 place)	4	0210	Bench, Metalworking (4 place)	4 1
0212	Bench, Molding	1	0212	Bench, Molding	1
0225	Bench, Sheet metal	1	0225	Bench, Sheet metal	1
0230	Bench, Soldering	2	0230	Bench, Soldering	_
0235	Bench, Spot welding	1	0235 0240	Bench, Spot welding Bench, TIG welding	1
		1	0405	Bookcase	1
0405	Bookcase	1	0540	Cabinet, Filing	1
0540	Cabinet, Filing	1	0542	Cabinet, Finishing	
0542	Cabinet, Finishing (storage)	1	00-12	(storage)	1
0615	Cabinet, Small parts	1	0615	Cabinet, Small parts	1
0620	Cabinet, Storage	4	0620	Cabinet, Storage	6
0625	Cabinet, Tool storage	e 1	0625	Cabinet, Tool storag	e 1
0755	Chair, Teacher's	1	0755	Chair, Teacher's	1
1025	Compressor, Air	1	1025	Compressor, Air	1
1235	Desk, Teacher's	1	1235	Desk, Teacher's	1
1592	Fire Blanket	1.	1592	Fire Blanket	1
1593	Fire Extinguisher	3	1593	Fire Extinguisher	3
1600	First Aid Kit	1	1600	First Aid Kit	1
1675	Furnace, Bench	2	1675	Furnace, Bench	2
3340	·	e 1	3340	Projector, Filmstrip (35mm) and slid (2" x 2")	
3345	Projector, Motion		3345		•
	picture, Sound	1		picture, Sound	. 1
3350	Projector, Overhead	1	3350	<u>-</u>	_
3555	Rack, Metal storage	1	3555		
4010	Screen, Projection	1	4010	· •	1
			4445		1
4615	Stool, Student's adjustable	24	4615	adjustable	24
4670	Table, Drafting	1	4670		1
4690	Table, Overhead projector	1	4690	Table, Overhead projector	1
	_				

ERIC

PLASTICS

Introductory			Advanced			
I. Ba	sic Plastics Equipment		I. Ba	sic Plastics Equipment		
Code	Item Num	ber	Code	Item Num	ber	
0070	Autoclave	1.	0070 1505	Autoclave Extruder, Large	1	
½510 1515	Extruder, Medium Extruder, Small	1	1510 1515 2715 2720	Extruder, Medium Extruder, Small Molder, Blow Molder, Rotational	1 1 1 1	
2725	Molding Press, Compression (large)	1	2725	Molding Press, Compression (large)	1	
2730 2735	Molding Press, Compression (medium) Molding Press,	1	2730	Molding Press, Compression (medium)	1	
2/33	Compression (small)	1	2740	Molding Press, Injection (large)	1	
2745	Holding Press, Injection (medium)	1	2745	Holding Press, Injection (medium)	1	
2750	Molding Press, Injection (small)	1	2755 2760	Molding Press, Transfer (large) Molding Press, Transfer	1	
2915	Oven	1 -	2915 3230	(medium) Oven Pre-Expander, Polystyrene	1 1 1	
4450	Spray Gun (all- materials)	1 `	3975 4450 4465	Scrape Granulator Spray Gun (all- materials) Spray Unit, Reinforced	1	
4870	Thermoforming Press, Vacuum (large)	1	4870	plastics Thermoforming Press, Vacuum (large)	1	
4880	Thermoforming Press, Vacuum (small)	1	4875 4880	Thermoforming Press, Vacuum (medium) Thermoforming Press, Vacuum (small)	1	
II. A	uxiliary Plastics Equipment		II. Aı	uxiliary Plastics Equipment		
Code	Item Num	ber	Code	Item Num	ber	
0510 3945 4655	Buffer, Pedestal Scale, Laboratory Strip heater	2 1 1	0510 3945 4655	Buffer, Fedestal Scale, Łaboratory Strip heater	2 1 1 55	

4900 5230 III. Code			4830 4835 4860 4900 5230	Tester, Hardness Testing Machine, Ten Timer, Interval Welding Unit, Plastic Plaster Casting Equipme	. 1 s 1
1060	Continer, Plaster	1	1060		
2700		3	2700	Container, Plaster	1
3970	Scoop, Plaster	1	3970	Mixing Bowls (set) Scoop, Plaster	3
4005	Screening Wheel	i	4005	Screening Wheel	1
	•	-	4000	ocicennig Wheel	1
_	Finishing Equipment		IV. F	inishing Equipment	
Code	<u>Item</u>	Number	Code	. Item	Number
4445	Spray Booth, Dry	1	4445	Spray Booth, Dry	1
4455	Spray Gun Outfit	1	4455	Spray Gun Outfit	1
V. W	oodworking Equipment	Number	V. W Code	oodworking Equipment	
			Code	<u>Item</u>	Number
1320	Dresser, Abrasive whe	el 1	1320	Dresser, Abrasive whe	el 1
1330	Drill, Electric,	_	1330	Drill, Electric,	
1340	Portable (1/4")	1	1010	Portable (1/4")	1
1570	Drill, Electric, Portable (1/2")	1	1340	Drill, Electric,	
1965	Grinder, Edge tool	1	1965	Portable (½")	1
	(bench)	1	1909	Grinder, Edge tool (bench)	1
2260	Jointer (6")	1	2260	Jointer (6")	1 1
2430	Lathe, Spinning (12")		2430	Lathe, Spinning (12")	_
2435	Lathe, Wood turning	1	2435	Lathe, Wood turning	1
3250	Press, Drill (15")	1	3250	Press, Drill (15")	1
3675	Router, Portable,		3675	Router, Portable,	_
2700	Electric	1		Electric	1
3780	Sander, Belt, Portable, Electric		3780	Sander, Belt, Portable,	
3790	Sander, Disc	1	2700	Electric	1
3795	Sander, Finishing,	1	3790 3705	Sander, Disc	1
. , ,,,	Portable, Electric	1	3795	Sander, Finishing,	•
3810	Sander, Spindle	1	3810	Portable, Electric Sander, Spindle	1
3830	Saw, Band, Wood-cutting	-	3830	Saw, Band, Wood-cuttir	1 ng 1
3835	Saw, Circular, Power	1	3835	Saw, Circular, Power	1 1
3885	Saw, Jig (scroll)	1	3885	Saw, Jig (scroll)	1
3900	Saw, Sabre (bayonet)	1	3900	Saw, Sabre (bayonet)	_
	` , , ,	_	9300	Saw, Sapre (Davoner)	1

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VI. N	letalworking Equipmen	nt	VI. N	letalworking Equipment	t
Code	Item	Number	Code	Item I	Number
0260	Bender, Universal	1	0260	Bender, Universal	1
0450	Brake, Box and pan	1	0450	Brake, Box and pan	1
			1615	Flask, Foundry (small) 1
1650	Forming Roll, Slip	1	1650	Forming Roll, Slip	1
		•	1680	Furnace, Crucible	1
1955	Grinder, Belt	1	1955	Grinder, Belt	1
			2415	Lathe, Metalworking (•
			2940	Pantograph, Metalwor	_
4150	Chan	. •	3860	Saw, Hack, Power	1
4150	Shear, Squaring foot	1	4150	Shear, Squaring foot	1
			4155	Shearing and Forming	
			4865	Machine, Universal	1
			4000	Testing Machine, Universal	1
			5185	Welder, Arc	1
5195	Welder, Spot	1	5195	Welder, Spot	1
J1 JJ	Weider, oper	•	5220	Welding Outfit,	-
			7224	Oxyacetylene	1
VII.	Hand Tools		VII.	Hand Tools	
Code	ltem	Number	Code	Item I	Number
0085	Awl, Brad	2	0085	Awl, Brad	2
0285	Bit, Auger (set)	1	0285	Bit, Auger (set)	1
0430	Brace, Ratchet	1	0430	Brace, Ratchet	-1
0645	Caliper, Inside (6")	1	0645	Caliper, Inside (6")	1
0655	Caliper, Outside (6")		0655	Caliper, Outside (6")	1
0765	Chisel, Butt (set)	2	0765	Chisel, Butt (set)	? 2
0775	Chisel, Carving (set)	2	0775	Chisel, Carving (set)	2
0780 0805	Chisel, Cold (set)	2	0780	Chisel, Cold (set)	2
0000	Chisel, Socket firmer (set)	1	0805	Chisel, Socket firmer	1
0835	Chisel, Wood turning		0835	(set) Chisel, Wood turning	1
0033	(set)	1	0033	(set)	1
0845	Circle Cutter	ī	0845	Circle Cutter	i
0850	Clamp, Bar (36")	8	0850	Ciamp, Bar (36")	8
0855	Clamp, Bar (48")	4	0855	Clamp, Bar (48")	4
0880	Clamp, "C" (6")	12	0880	Clamp, "C" (6")	12
0885	Clamp, "C" (8")	6	0885	Clamp, "C" (8")	6
0945	Clamp, Spring (#3)	12	0945	Clamp, Spring (#3)	12
1065	Countersink, Bit (for		1065	Countersink, Bit (for	
	brace) (set)	1		brace) (set)	1
1295	Divider, Spring (6")	1	1295	Divider, Spring (6")	ī
1350	Drill, Hand (1/4")	1	1350	Drill, Hand (1/4")	1
1355	Drill, Hand (%")	1	1355	Drill, Hand (%")	i
1360	Drill Stand, Fractiona	_	1360	Dril! Stand, Fractional	_
2000	Dim Stand, Fractions		1300	Dim Stally, Hactivilal	
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1370	Drill, Twist (number set)	1	1370	Drill, Twist (number set)	1
1375	Drill, Twist, Straight		1375	Drill, Twist, Straight	_
	shank (fractional set)	1	ж	shank (fractional set)	1
1500	Extractor, Screw (set)	1	1500	Extractor, Screw (set)	1
1540	Files (see specifications for set)		1540	Files (see specifications for set)	
1550	File Card and Brush	6	1550	File Card and Brush	6
1570	File, Needle (set)	1	1570	File, Needle (set)	1
1710	Gauge, Auger bit	1	1710	Gauge, Auger bit	1
1775	Gauge, Marking	1	1775	Gauge, Marking	1
1855	Gauge, Wire and sheet metal (American)	1	1855	Gauge, Wire and sheet metal (American)	1
1860	Gauge, Wire and sheet metal (U.S.S.)	1	1860	Gauge, Wire and sheet metal (U.S.S.)	1
1900	Goggles (spectacles), Clear observation	20	1900	Goggles (spectacles), Clear observation	20
1915	Graduate Cylinder (100cc)	2	1915	Graduate Cylinder (100cc)	2
1920	Graduate Cylinder (500cc)	2	1920	Graduate Cylinder (500cc)	2
2030	Hammer, Ball peen		2030	Hammer, Ball peen	_
	(12 oz.)	1		(12 oz.)	1
2130	Hammer, Soft face	2	2130	Hammer, Soft face	2
2085	Hammer, Claw (16 oz.)	2	2085	Hammer, Claw (16 oz.)	2
			2140	Helmet, Welding (arc) (hand type)	2
			2145	Helmet, Welding (head	_
			2145	type)	1
2540	Mallet, Rawhide	2	2540	Mallet, Rawhide	2
2625	Micrometer, Outside (1")	_	2625	Micrometer, Outside (1")	1
2630	Micrometer, Outside (2")		2630	Micrometer, Outside (2")	1
2800	Nail Set (1/16" tip)	6	2800	Nail Set (1/16" tip)	6
2865	Oiler, Bench	6	2865	Oiler, Bench	6
2890	Oilstone, Combination, India	2	2890	Oilstone, Combination, India	2
2895	Oilstone, Combination, Silicon carbide	2	2895	Oilstone, Combination, Silicon carbide	2
			2995	Pipet Control, Microsyrnge	1
3010	Plane, Jack	2	3010		2
3085	Pliers, Combination (6")	1	3085		_
3090	Pliers, Combination (8")	_	3090	•	
3100	Pliers, Diagonal cutting	1	3100	Pliers, Diagonal cutting	1
3110	Pliers, End cutting	1	3110	Pliers, End cutting	1
3155		1	31 5 5	Pliers, Straight nose	1

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3160	Pliers, Tongue	1	3160	Pliers, Tongue	1
3170	Pliers, Vise-grip wrench	1	3170	Pliers, Vise-grip wrench	1
3455	Punch, Center (set)	3	3455	Punch, Center (set)	3
3480	Punch, Hand (set)	1	3480	Punch, Hand (set)	1
3500	Punch, Pin (set)	1	3500	Punch, Pin (set)	1
3750	Rule, Steel (12")	6	3750	Rule, Steel (12")	6
3755	Rule, Steel (24")	6	3755	Rule, Steel (24")	6
3815	Sanding Drums (set)	1	3815	Sanding Drums (set)	1
3820	Saw, Back	2	3820	Saw, Back	2
3830	Saw, Coping	2	3830	Saw, Coping	2
3850	Saw, Hack (hand)	2	3850	Saw, Hack (hand)	2
3865	Saw, Hand, Crosscut	2	3865	Saw, Hand, Crosscut	2
3965	Scissors	1	3965	Scissors	1
3980	Scraper, Cabinet	2	3980	Scraper, Cabinet	2
3995	Scraper, Hand	6	3995	Scraper, Hand	6
4070	Screwdriver, Standard bit	•	4070	Screwdriver. Standard bit	
	(round blade) (set)	6		(round blade) (set)	6
4165	Shield, Face	6	4165	Shield, Face	6
4275	Snips, Tinner's,		4275	Snips, Tinner's,	
	Straight (#8)	2	•~-	Štraight (#8)	2
4480	Square, Combination	6	4480	Square, Combination	6
4485	Square, Combination set		4485	Square, Combination set	
	(with protractor and	_		(with protractor and	
	center head)	1		center head)	1
4490	Square, Steel framing	2	4490	Square, Steel framing	2
4760	Tap and Die, NC (U.S.	1	4760	Tap and Die, NC (U.S. standard) (set)	1
4765	standard) (set) Tap and Die, NF (S.A.E.)	1	4765	Tap and Die, NF (S.A.E.)	•
4/05	(set)	1	4/03	(set)	1
4775	T Bevel, Sliding	1	4775	T Bevel, Sliding	1
5120	V Block and Clamps (set)	1	5120	V Block and Clamps (set)	1
5255	Wrench, Adjustable end	•	5255	Wrench, Adjustable end	Ī
0200	· (6")	1		(6")	1
5260	Wrench, Adjustable end		5260	Wrench, Adjustable end	
	(8")	1		(8")	1
5265	Wrench, Adjustable end		5265	Wrench, Adjustable end	
	(10")	1		(10")	1
5270	Wrench, Adjustable end (12")	1	5270	Wrench, Adjustable end (12")	1
5280	Wrench, Allen key (hex)	-	5280	Wrench, Allen key (hex)	-
0200	(set)	1	3233	(set)	1
5290	Wrench, Combination box	_	5290	Wrench, Combination box	•
	and open (set)	1		and open (set)	1
5360	Wrench, Socket	1	5360	Wrench, Socket	1
	(¾" drive) (set)	1		(¾" drive) (set)	1
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Code	Item	Number	Code	Item Nu	ımber
			C150	Bench, Arc welding	1
			0180	Bench, Gas welding	1
010E	Barah Machina	2	0195	Bench, Machine	2
0195	Bench, Machine Bench, Metalworking	4	0210	Bench, Metalworking	
0210	(4 place)	. 2	V	(4 place)	2
0212	Bench, Molding	1	0212	*	1
0212	Bench, Plaster	1	0215		1
0215	Bench, Woodworking		0255	Bench, Woodworking	_
UZJJ	(4 place)	4		(4 place)	6
0405	Bookcase	1	0405	Bookcase	1
0465	Broom, Push	3	0465	Broom, Push	3
0470	Brush, Bench	12	0470	Brush, Bench	12
0540	Cabinet, Filing	1	0540	·	1
0542	Cabinet, Finishing		0542	Cabinet, Finishing	~
	supply	2		supply	2
0590	Cabinet, Parts storage	ge 1	0590	Cabinet, Parts storage	_
0610	Cabinet, Sheet plasti	cs	0610	Cabinet, Sheet plastics	1
	storage.	Ĺ	0600	storage	j
0620	Cabinet, Storage	1	0620	Cabinet, Storage	1
0625	Cabinet Tool storage	1	0625	Cabinet, Tool storage	2
0710		2	0710	Can, Oily waste Can, Safety (1 qt.)	·
0720		6	0720 0725		è
0725		6	0725	Chair, Teacher's	
0755		1	1235	Desk, Teacher's	
1235		1 1	1592	Fire Blanket	
1592		3	1592	Fire Extinguisher	
1593		1	1593	First Aid Kit	
1600	First Aid Kit	1	2660	Microscope	
	Don Duck "	1	2932	_ :	
2932	•	•	2980	Pencil Sharpener,	
2980	Pencil Sharpener, Standard	1	2300	Standard	
3340		-	3340		
3340	(35mm) and slide	8		(35mm) and slide	
	(2" x 2")	1		(2" x 2")	
3345			3345		
	picture, Sound	1		picture, Sound	
3350		1	3350		
354		1	3545		
355		1	3555		
4010		1	4010		
469			4690		
, 40	projector	1		projector	
	• •	_	5065	Truck, Welding cylind	er

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WOODWORKING

	Introductory			Advance 4				
I. Fa	bricating Machines		I. Fa	I. Fabricating Machines				
Code	ltem .	Number	Code	item N	umber			
1330	Drill, Electric,		1330	Drill, Electric,				
	Portable (1/4")	1		Portable (1/4")	1			
			1335	Drill, Electric,				
1965	Crindon Edua A 1			Portable (%")	1			
1900	Grinder, Edge tool (bench)	1	1965	Grinder, Edge tool				
1980	Grinder, Oil tool	1 1	1980	(bench) Grinder, Oil tool	1			
2260	Jointer (6")	1	2260	Jointer (6")	1 1			
	()	•	2265	Jointer (8")	1			
2435	Lathe, Wood turning	3	2435	Lathe, Wood turning	3			
	and the same of th		2780	Mortiser, Hollow chisel				
			3025	Plane, Portable,	1			
			3023	Electric	1			
3250	Press, Drill (15")	1	3250	Press, Drill (15")	1			
3675	Router, Portable,	_	3675	Router, Portable,	-			
	Electric	1		Electric	1			
3780	Sander, Belt, Portable,	,	3780	Sander, Belt, Portable,				
	Electric	1		Electric	1			
3785	Sander, Combination b		3785	Sander, Combination be	elt			
	and disc	1		and disc	1			
3795	Sander, Finishing,	_	3795	Sander, Finishing,				
	Portable, Electric	1		Portable, Electric	1			
2010	0 - 1- 0 - 11	_	3805	Sander, Handblock stro				
3810	Sander, Spindle	1	3810	Sander, Spindle	1			
3830	Saw, Band, Woodcuttin	_	3830	Saw, Band, Woodcutting				
3835	Saw, Circular, Power	1	3835	Saw, Circular, Power	1			
3885	Saw, Jig (scroll)	1	3885	Saw, Jig (scroll)	1			
			3895	Saw, Radial-arm, Power				
			3900	Saw, Sabre (bayonet)	1			
			4135	Shaper, Spindle (floor model)	1			
			4660	Surfacer (single surface				
			4000	planer)	1			
	and Table and Fastingson		••					
	and Tools and Equipmen			and Tools and Equipment				
Code	Item N	umber	Code	Item Nu	ımber			
0085	Awl, Brad	2	0085	Awl, Brad	2			
0090	Awl, Scratch	4	0090	Awl, Scratch	4			
0125	Bar, Wrecking	1	0125	Bar, Wrecking	1			
0145	Bellows, Molder's	4	0145	Bellows, Molder's	4			
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0285	Bit, Auger (set)	2	0285	Bit, Auger (set)	2
0290	Bit, Combination drill		0290	Bit, Combination drill	1
0230	and countersink (set)	1		and countersink (set)	1
0295	Bit, Combination drill		0295	Bit, Combination drill	1
0230	and counterbore (set)	1		and counterbore (set)	1
			0300	Bit, Electrician's	1
0305	Bit, Expansive	1	0305	Bit, Expansive	1
0310	Bit, Extension	1	0310	Bit, Extension	•
0315	Bit, Forstner (brace	_	0315	Bit, Forstner (brace	1
	set)	1	0200	set) Bit, Forstner (machine	•
0320	Bit, Forstner (machine	•	0320	set)	1
	set)	1	0225	Bit, Multi-spur (set)	1
0325	Bit, Multi-spur (set)	1	0325	Bit, Plug cutter (set)	1
0330	Bit, Plug cutter (set)	1	0330		1
0345	Bit, Twist, Car	1	0345	Bit, Twist, Car	24
0365	Block, Sanding	24	0365	Block, Sanding	5
0430	Brace, Ratchet	5	0430	Brace, Ratchet	•
0435	Bracket, Saw horse	_	0435	Bracket, Saw horse	2
	(pair)	2	A 4 6 5	(pair)	6
C465	Broom, Push	6	0465	Broom, Push	24
0470	Brush, Bench	24	0470	Brush, Bench	1
0520	Burnisher	1	0520	Burnisher	i
0710	Can, Oily waste	1	0710	Can, Oily waste	4
0720	Can, Safety (1 qt.)	4	0720	Can, Safety (1 qt.)	3
0725	Can, Safety (1 gal.)	3	0725	Can, Safety (1 gal.)	12
0765	Chisel, Butt (set)	12	0765	Chisel, Butt (set)	4
0775		4	0775	Chisel, Carving (set)	4
0790	Chisel, Gouge, Inside	•	0790	Chisel, Gouge, Inside	3
	(set)	3	070E	(set) Chisel, Gouge, Outside	•
0795		2	0795	(set)	3
	(set)	3	0005	Chisel, Socket firmer	
0805		Λ	0805	(set)	4
	(set)	4	0835	Chisel, Wood turning	
0835		3	0033	(set)	3
	(set)	1	0845		1
0845	- 40.040	6	0850		6
0850		6	0855	- (40/)	6
0855		4	0870		4
0870		4	0875		4
0875		4	0880		4
0880		4	0885		4
0885		4	0900	· · · · · · · · · · · · · · · · · · ·	4
0900		6	0905		6
090	5 Clamp, Fixture (set)	_	0910		3/o) 6
091	O Clamp, Handscrew (#3	3/0) 6 0) 6	0915		0) 6
091	5 Clamp, Handscrew (#	1) 12	0910		1) 12
092	O Clamp, Handscrew (#	1) 12	0925		2) 12
092	5 Clamp, Handscrew (#	2) 12	UJL	Clambi Canada (1)	-

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0020	Clamp Handsaraw (#3)	6	0930	Clamp, Handscrew (#3)	6
0930	Clamp, Handscrew (#3)	1	0935	Clamp, Mitre frame	1
0935	Clamp, Mitre frame	3	0995 ·	Compass, Pencil	3
0995	Compass, Pencil	3	1065	Countersink Bit (for	
1065	Countersink Bit (for	2	1003	brace) (set)	2
1070	brace) (set)	2	107.0	Countersink, High Speed	2
1070	Countersink, High Speed	1	1150	Cutter, Glass	1
1150	Cutter, Glass	i	1250	Die, Letter (set)	1
1250	Die, Letter (set)	i	1255	Die, Number (set)	1
1255	Die, Number (set)	2	1305	Divider, Wing	2
1305	Divider, Wing	2	1317	Dowel Centers (pairs)	
1317	Dowel Centers (pairs) (set)	1	1017	(set)	1.
1320	Dresser, Abrasive wheel	1	1320	Dresser, Abrasive wheel	1
1350	Drill, Hand (1/4")	2	1350	Drill, Hand (1/4")	4
1355	Drill, Hand (¾")	1	1355	Drill, Hand (3%")	1
1360	Drill Stand, Fractional	1	1360	Drill Stand, Fractional	1
1375	Drill, Twist, Straight	-	1375	Drill, Twist, Straight	
13/3	shank (fractional set)	1		shank (fractional set)	1
1540	Files (see specifications		1540	Files (see specifications	
1040	for set detail)	1		for set detail)	1
1545	File, Auger bit	3	1545	File, Auger bit	3
1550	File Card and Brush	6	1550	File Card and Brush	6
1665	Funnel	2	1665	Funnel -	2
1710	Gauge, Auger bit	1	1710	Gauge, Auger bit	1
1745	Gauge, Drill, Fractions	1	1745	Gauge, Drill, Fractions	1
1775	Gauge, Marking	6	1775	Gauge, Marking	6
1780	Gauge, Marking (double		1780	Gauge, Marking (double	•
	bar)	2		bar)	2
1800	Gauge, Screw pitch	1	1800	Gauge, Screw pitch	1
1855	Gauge, Wire and sheet	_	1855	Gauge, Wire and sheet	1
	metal (American)	1	1000	metal (American)	1
1860	Gauge, Wire and sheet	•	1860	Gauge, Wire and sheet metal (U.S.S.)	1
	metal (U.S.S.)	1	1005	Gloves, Leather (pair)	4
1885	Gloves, Leather (pair)	4	1885	Goggles, Clear	7
1900	Goggles, Clear	24	1900	observation	24
1020	observation Grease '3un	1	1930	Grease Gun	1
1930	Hammer, Claw (7 oz.)	3	2070	Hammer, Claw (7 oz.)	3
2070		6	2080	Hammer, Claw (13 oz.)	6
2080 2085	Hammer, Claw (16 oz.)	6	2085		6
2107		2	2107		2
		1	2175	Hose, Air	1
2175 2245	Jig, Dowelling	2	2245	Jig, Dowelling	2
		3	2360	Knife, Putty	3
2360	•	6	2370		6
2370	•		2465	Level	1
2465		1			4
2535	Mallet, Hardwood	4	2535	Mallet, Hardwood	7
				•	63

		A	2540	Mallet, Rawhide	4
2540	Mallet, Rawhide	4 1	2690	Mitre Box	1
2690	Mitre Box	4	2800	Nail Set (1/16" tip)	4
2800	Nail Set (1/16" tip)	4	2805	Nail Set (3/32" tip)	4
2805	Nail Set (3/32" tip)	1	2835	Nipper, End cutting	1
2835	Nipper, End cutting	î	2845	Nozzle, Blow gun (air line)	1
2845	Nozzle, Blow gun (air line)	6	2865	Oiler, Bench	6
2865	Oiler, Bench Oiler, Pump	ĭ	2870	Oiler, Pump	1
2870	Oilstone, Carving tool	_	2885	Oilstone, Carving tool	
2885	slips (set)	1		slips (set)	1
2890	Oilstone, Combination,		2890	Oilstone, Combination,	_
2030	India	1		India	1
2900	Oilstone, Gouge slip	1	2900	Oilstone, Gouge slip	1
2905	Oilstone, Slip	1	2905	Oilstone, Slip	1 1 3
2932	Pan, Dust	1	2932	Pan, Dust	T
3000	Plane, Block	3	3000	Plane, Block	24
3005	Plane Iron, Double	24	3005	Plane Iron, Double	1.8
3010	Plane, Jack	18	3010	Plane, Jack	
3015	Plane, Jointer	2	3015	Plane, Jointer Plane, Rabbet	2 4
3030	Plane, Rabbet	4	3030	Plane, Router	4
3035	Plane, Router	4 6	3035 3040	Plane, Smoothing	6
3040	Plane, Smoothing	2	3085	Pliers, Combination (6")	2
3085	Pliers, Combination (6")			Pliers, Vise-grip wrench	2
317 0	Pliers, Vise-grip wrench	2	3170	Protractor, Machinist's	_
3360	Protractor, Machinist's	2	3360	bevel	2
	bevel	2	2455	Punch, Center (set)	3
3455	Punch, Center (set)	3	3455	Fullen, Center (304)	
3695	Rule, Flexible, Steel	4			
,	tape (6')	4	3700	Rule, Flexible, Steel	
	•		3/00	tape (8')	4
	St. This Chool		3705	Rule, Flexible, Steel	
3705		4	3/03	tape (10')	4
	tape (10')	7	3715	Rule, Flexible, Steel	
3715		1	3/13	tape (25')	1
	tape (25')	•	3720		
			0, 20	tape (50')	1
0705	Rule, Flexible, Steel		3725		
3725	tape (100')	1	0, 20	tape (100')	1
0750		18	3750		18
3750		6	3755		6
3755		3	3760		3
3760		1	J. 00	• • • • • • • • • • • • • • • • • • • •	
3815		6	3820	Saw, Back	6
3820	- •	12	3845		6
3845		1	3850		1
3850		4	3865		4
3865			3870	5:	4
3870		4			1
3887	7 Saw, Keyhole	-	3887	Jaw, Neyholo	_

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	,				
			3905	Saw, Veneer	4
3925	Scale, Architect's	1	3925	Scale, Architect's	1
3965	Scissors	4	3965	Scissors	4
3980	Scraper, Cabinet	4	3980	Scraper, Cabinet	4
3995	Scraper, Hand	6	3995	Scraper, Hand	6
4040	Screwdriver, Offset		4040	Screwdriver, Offset	
	ratchet	1		ratchet	1
4045	Screwdriver, Offset,		4045	Screwdriver, Offset,	_
	Straight slot (set)	2		Straight slot (set)	2
4050	Screwdriver, Phillips		4050	Screwdriver, Phillips	_
	(set)	2		(set)	2
4060	Screwdriver, Spiral	_	4060	Screwdriver, Spiral	
	ratchet	2		ratchet	2
4070	Screwdriver, Standard		4070	Screwdriver, Standard	
	bit (round blade) (se			bit (round blade) (set	
4165	Shield, Face	12	4165	Shield, Face	12
4295	Soldering Copper, Elec	tric 1	4295	Soldering Copper, Elect	ric 1
4400	Spokeshave, Convex	_	4400	Spokeshave, Convex	
	bettom	4	440=	bottom	4
4405	Spokeshave, Straight	4	4405	Spokeshave, Straight	4
4455	Spray Gun Outfit	1	4455	Spray Gun Outfit	1
4480	Square, Combination	2	4480	Square, Combination	2
4490	Square, Steel framing	6	4490	Square, Steel framing	6
4495	Square, Try (6")	24	4495	Square, Try (6")	24
4505	Square, Try (12")	4	4505	Square, Try (12")	4
4775	T Bevel	3 2	4775	T Bevel	2
4965	Trammel Points		4965	Trammel Points	1
4990	Triangle, 30°-60° (8")	1 1	4990 5005	Triangle, 30°-60° (8")	1
5005	Triangle, 45° (8")		5005	Triangle, 45° (8")	1
5070	T Square	1	5070	T Square	Ţ
5135	Vise, Bench, Drill	1	5135	Vise, Bench, Drill	1
5145	Vise, Mitre	1	5145	Vise, Mitre	1
5260	Wrench, Adjustable en (8")	d 1			
5280	Wrench, Allen key (hex	()	5280	Wrench, Allen key (hex)	
	(set)	1		(set)	1
5335	Wrench, Open end (se		5335	Wrench, Open end (set)) 1
5360	Wrench, Socket	-	5360	Wrench, Socket	
<i>3</i> 300	(3/8" drive) (set)	1	3300	(3/8" drive) (set)	1
	xperimental and Resear	ch		xperimental and Researcl	h
	quipment			quipment	
Code	Item N	lumber	Code	Item Nu	ımber
			0100	Balance, Beam	1
			2190	Hot Plate, Electric	1
			2225	Jack, Auto, Hydraulic	
		•		(standard type) (1½	
				ton)	3
	•			wii,	
					65

2660	Microscope	1	2590 2605 2610 2660 2915 3265 3940 3945	Meter, Galvanometer Meter, Moisture content (electric) Meter, Volt-ohm (multi- range) Microscope Oven Press, Hydraulic, Heated platen Scale, Household Scale, Laboratory	1 1 1 1 1 1
IV. G	eneral Furnishings		IV. G	eneral Furnishings	
Code	Item Nu	ımber	Code	Item Nur	mber
0160	Bench, Demonstration	1	0160 0170	Bench, Demonstration Bench, Electric demonstration	1
0250	Bench, Woodworking (2 place)	8	0250	Bench, Woodworking (2 place)	8
0255	Bench, Woodworking	2	0255	Bench, Woodworking (4 place)	2
0405	(4 place)	2 2	0405	Bookcase	2
0405	Bookcase	2	0540		2
0540	Cabinet, Filing Cabinet, Finishing (str)		0542		1
0542 0575	Cabinet, Machine	•	0575	Cabinet, Machine	_
09/9	accessory	1	03/3	accessory	1
0580	Cabinet, Nail and	-	0580	Cabinet, Nail and	
0300	screw storage	1		screw storage	1
0620	Cabinet, Storage	1	0620	Cabinet, Storage	1
0625	Cabinet, Tool storage	1	0625	Cabinet, Tool storage	1
0755	Chair, Teacher's	1	0755	Chair, Teacher's	1
1025	Compressor, Air	1	1025	Compressor, Air	1
1235	Desk, Teacher's	1	1235	Desk, Teacher's	1
1405	Dust Collection System	1	1405	Dust Collection System	1
1592	Fire Blanket	1	1592	Fire Blanket	1
1593	Fire Extinguisher	3	1593	Fire Extinguisher	3
1600	First Aid Kit	1	1600		1
2980	Pencil Sharpener, Standard	1	2980	Pencil Sharpener, Standard	1
3340	Projector, Filmstrip (35mm) and slide (2" x 2")	1	3340	Projector, Filmstrip (35mm) and slide (2" x 2")	1
3345	Projector, Motion	-	3345	Projector, Motion	
3070	picture, Sound	1		picture, Sound	1
3350	Projector, Overhead	1	3350	Projector, Overhead	1
3540	Rack, Glue clamp	1	3540	Rack, Glue clamp	1
66	-				

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			3568	Rack, Roll, Wrapping paper	r 1
4010	Screen, Projection	1	4010	Screen, Projection	1
	•		4445	Spray Booth, Dry	1
4670	Table, Drafting	1	4670	Table, Drafting	1
4690	Table, Overhead projector	1	4690	Table, Overhead projector	1
4675	Table, Finishing	1	4675	Table, Finishing	1
	-		4715	Table, Spraying	1

II. EQUIPMENT SPECIFICATIONS

Introduction:

The items of equipment described below are alphabetically arranged and chronologically numbered. In addition, each item is followed by a listing of the Sections that recommended their inclusion. Where Sections recommended equipment identical in name but not in detail, their unique specification has been separated and so designated.

It was not intended that purchases could be made directly from this Equipment Guide without further resort to catalogs and more detailed specification. The items are specified only in general terms so that they may be clearly identified. Most items bear basic sizes, dimensions, capacities, and safety considerations where they apply. Special care was exercised to avoid the reference to a particular brand name or company—especially when equivalent equipment is available from more than one source.

MASTER LIST OF EQUIPMENT

0005 Adaptor, Socket

General Shop

For socket wrenches; 3/8" is 1/2" drive.

0010 Adaptor, Socket

General Shop

For socket wrenches; 1/2" to 3/8" drive.

0015 Airbrush

Ceramics: beginning, advanced

Graphic Arts: advanced

With single control for air and ink; fine, medium, and heavy heads (with ¼ oz. color cup, 3 oz. color bottle); hanger; hose coupling; 10' hose and fittings; reamer; instructions; protective case.

0620 Aligner, Connecting rod

Auto and Power Mechanics: advanced

With bend and twist indicator; V block; bending bar.

0025 Alignment Tool (set)

Electricity-Electronics: beginning, advanced

Basic set of trim tools for radio/T.V. r.f alignment.

0030 Alternator-Generator-Regulator Test Stand

(Alternator Test Equipment, set)

Auto and Power Mechanics: advanced

For all 6, 12, 24, and 32 volt testing at outputs up to 700 watts; for all passenger cars and light truck equipment; to develop over 2 HP; 220 V, single phase.

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0035 Analyzer, Capacitor

Auto and Power Mechanics: advanced

Capacitance bridge measures up to 2000 uF in 5 overlapping ranges; insulation resistance of papers, ceramics, and micas directly read on large meter; dual range; leadage current read directly on meter; variable ranges of DC voltage for testing at exact rated voltage; reads power factor of electrolytics; meter protector of solid-state design; color-keyed push buttons for instant range selection.

0040 Analyzer, Engine

Auto and Power Mechanics: advanced

Motor tune-up tester; portable unit; includes scope; combustion booster unit; coil breaker unit; tach-dwell unit; condenser-vacuum unit; head frame assembly; portable cabinet; complete motor tester model.

0045 Anvil

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

100 lb.; face: tool steel, tempered, ground and polished; horn: covered with tough untempered steel; horn tip all steel; stand.

0050 Apron, Foundry

General Shop

Metalworking: beginning, advanced

Leather, approximately 44"L.

0052 Apron, Rubber

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

0055 Apron, Welding

General Shop

Metalworking: beginning, advanced

Leather; approximately 44"L.

0060 Arbor, Milling machine

Metalworking: advanced

1-inch, "B" bearing.

0065 Atomizer

Ceramics: beginning, advanced

General shop

Lightweight, well balanced, self-draining, designed to be used in one hand and for water base gum binders.

0070 Autoclave

Plastics: beginning, advanced

Steam pressure regulated to 50 p.s.i., min. capacity 2 gals., safety

locks on doors, steam generator included if high pressure steam not available.

0075 Automatic Transmission Tool (set)

Auto and Power Mechanics: advanced

A complete unit to facilitate service, repair, and adjustment of various automatic transmissions.

0080 Awl, Bookbinder's

Graphic Arts: beginning, advanced

Detachable sharp steel point 3"L; point tightly clamped into a hard-wood, leather topped handle; points are removable by means of a key.

0085 Awl, Brad

General Shop

Plastics: beginning, advanced Woodworking: beginning, advanced

0090 Awl, Scratch

Elementary

General Shop

Metaiworking: beginning, advanced Woodworking: beginning, advanced 6-inch.

0095 Awl, Stitching, Automatic

General Shop

0100 Balance, Beam

Woodworking: advanced

Triple-beam; accurate to one-hundredth of a gram.

40105 Ball Mill, Roller type

Ceramics: beginning, advanced

2 gal. size. To be bolted on stand or bench. Requires $\frac{1}{4}$ to $\frac{1}{3}$ HP electric motor.

0110 Banding Wheel, Potter's Bench

Ceramics: beginning, advanced

Iron type—extra heavy cast iron wheels are machines with precision and perfectly balanced. Turntable marked with concentric circles. Ball bearing movement.

0115 Bar Folder

General Shop

Metalworking: beginning, advanced 30-inch, adjustable, counter-balanced.

0120 Bar, Pry

Auto and Power Mechanics: beginning, advanced Alloy steel: rolling head; 12" x 7/16" diameter.





0125 Bar, Wrecking

Woodworking: beginning, advanced Forged steel: hex stock; 3/4" x 24"L.

0130 Battery Eliminator and Charger

Auto and Power Mechanics: beginning, advanced
Up to 75 ampere output for 6 V fast charge; up to 50 ampere output
for 12 V fast charge; protection against overload; air cooled by fan;
ammeter with 2% accuracy on full deflection of scale; equipped
with leads.

0135 Battery, Storage (6-volt)

Auto and Power Mechanics: beginning, advanced Ständard.

0140 Battery, Storage (12-volt)

Auto and Power Mechanics: beginning, advanced Standard.

0145 Bellows, Molder's

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced 8-inch; made of high grade sheepskin.

0150 Bench, Arc welding

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Two station; with fire-proof curtain. (Must conform to ASA standards)

0155 Bench, Bookbinding (unit)

Graphic Arts: beginning, advanced

Top 2" thick of solid wooden core with plastic laminated surface, washable, durable, resistant to glues, stains, water; base of heavy guage steel, tension bolted for strength and rigidity; complete with one steel shelf and two stacking type steel drawers; 72"L x 34"W x 34"H.

0160 Bench, Demonstration

Graphic Arts: advanced

Woodworking: beginning, advanced

13/4" x 28" x 60" laminated maple top, solid maple base, locking casters, peg board tool panels for hand tools, double door cabinet.

0165 Bench, Electric (with test panel)

General Shop

 $1\frac{3}{4}$ " x 30" x 6' top; includes AC voltmeter (0-5V, 0-50V, 0-300V), AC ammeter (0-1A, 0-5A, 0-25A), watthour meter, transformer, 120V





primary and 4-8-16-24V secondary; with fuse box, switches, receptacles, circuit breaker, bell and buzzer: Input 120 volt AC; 1 phase; 30 amps.

0170 Bench, Electric demonstration

Electricity-Electronics: advanced

Woodworking: advanced

6' x 30", w/cabinet storage under variable 0-120 volt AC and DC outlets.

0175 Bench, Elementary, Work

Elementary

Woodcraft type; 4-station; hardwood construction throughout; top approximately 36" x 47"; recommended height: kindergarten—24", primary—27", intermediate (6, 7, 8, 9)—30"; with storage for 25-50 junior-sized general-craft hand tools; bench is available with following tool assortment:

1 bench brush 1 nail set 1 bit, dowel, 1/4" 1 manual, instruction 1 bit, dowel, 3/8" 1 plane, block 1 bit, dowel, 1/2" 1 rule, bench, 12" 1 bit brace, 8" 2 sanding blocks 2 "C" clamps, 2" 2 saws, coping 2 files, cabinet, 8" 1 saw, hand, 16" 1 file, round, 8" 2 sawbacks

1 hammer, nail, 10 oz. 1 screwdriver, 4" x 3/16" tip 1 hand drill, hollow handle 1 try-square, 6", all steel

0180 Bench, Gas welding

General shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Two station style, with open space below tops, sturdy all steel construction, tops to be provided with framing to hold fire-brick (with fire-brick installed), back board on both sides of separating partition to be covered with durable asbestos boards, equipped with a pre-assembled manifold with valves and regulators.

0185 Bench Hook

Elementary

Wood, approximately \(\frac{5}{8}\'' \times \(\frac{5}{2}\'' \times \(\frac{10}{2}\'' \) with end cleats centered to permit right and left hand use. (Usually home-made.)

0190 Bench, Island, Double-face

Electricity-Electronics: beginning, advanced

6' x 48", with 12 steel lockers in base cabinet; top to be non-conducting pressed board, wood, or laminated plastic.

0195 Bench, Machine

Metalworking: beginning, advanced Plastics: beginning, advanced





Hard maple top, approximately $2\frac{1}{4}$ " x 40" x 96", height 32", storage for sheet metals under, one stake plate.

0200 Bench, Marble siab

Ceramics: beginning, advanced

0205 Bench, Metalworking (2 place)

General Shop

Top 60" x 40" x $2\frac{1}{4}$ ", laminated maple, height 32", angle iron edges, one shelf.

0210 Bench, Metalworking (4 place)

Auto and Power Mechanics; beginning, advanced

Metalworking: beginning, advanced

Plastics: beginning, advanced

Top $2\frac{1}{4}$ "T x 24"W x 7"L, laminated maple with 2" x 2" x $\frac{1}{8}$ " angle iron fitted flush to work surface on both edges, legs welded heavy gauge steel with floor feet, 21" top span and 30" high, one stringer on each side for bracing.

0212 Bench, Molding

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Steel construction; size approximately 30" x 60" x 32"H. Trough galvanized for damp sand storage; storage below for tools, etc.

0215 Bench, Plaster

Plastics: beginning, advanced

Stainless steel top approximately 26" x 96", stainless steel sink, area under for storage.

0220 Bench, Saw

Elementary

Versatile saw "trestle"; top approximately 13" x 24"; 18" high. Slot through center of bench to allow sawing with no crossbar or other interference.

0225 Bench, Sheet metal (with stake plates)

General Shop

Metalworking: beginning, advanced

Top $60'' \times 40''$, $\times 2\frac{1}{4}''$, laminated maple, height 32'', angle iron edges, 3 shelves, with 2 stake plates $30'' \times 8''$.

0230 Bench, Soldering

General Shop

Metalworking: beginning, advanced

Steel, transite covered top, 6' x 30"W x 32"H; steel storage cabinet below.

0235 Bench, Spot welding

Metalworking: beginning, advanced

All steel construction, 5' x 24" top; steel storage cabinet below.



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0240 Bench, TIB welding

Metalworking: advanced

Two station style, with protective fire-proof curtain and curtain rack, all metal construction, tops provided with steel grating over a sheet of asbestos board, back boards on both sides of separating partition to be covered with durable asbestos board, open space to be provided below table tops for installation of power units.

0245 Bench, Wall-type

General Shop

Top 100" x 24" x 21/4"T; laminated maple, height 32", 3 pairs legs, bolted construction, w/lower shelf; enclosed cabinet.

0250 Bench, Woodworking (2 place)

Woodworking: beginning, advanced

 $2\frac{1}{4}$ " x $28\frac{1}{2}$ " x 64" edge-grain laminated hard maple top, bases of either wood or metal, containing double door cabinets, lockers, or drawers, base units 36"W x 21"D, overall bench height $33\frac{1}{4}$ ", supplied with 2 vises.

0255 Bench, Woodworking (4 place)

Ceramics: beginning, advanced

Elementary
General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

 $2\frac{1}{4}$ " x 54" x 64" edge-grain laminated hard maple top with angle steel splines, top mounted on two 36"W x 21"D x 31"H base units of either wood or metal, containing double door cabinets or lockers, equipped with 4 vises.

0260 Bender, Universal

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

On stand; capacity: radius 6" to 12", round mild steel bar $\frac{1}{2}$ ", steel tubing 16 ga. $\frac{3}{4}$ " O.D., flat steel bar (bent flat) $\frac{1}{4}$ " x $1\frac{1}{2}$ "; including accessories for variety of common bends in flats, rounds, and tubing.

0265 Bending Jig, Adjustable

General Shop

Bending posts of machine steel, fixed-one hardened; to take metal up to 1"W and $\frac{1}{2}$ "T.

0270 Beveler

Elementary

For edges of leather.

0280 Binding Unit, Plastics

Graphic Arts: beginning, advanced



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Hand operated punching machine and hand operated binding machine; both lightweight and portable; maximum punching and binding length 12''; ring binder capacity $\frac{1}{4}''$ to 2'' diameter.

0285 Bit, Auger (set)

Electricity-Electronics: beginning, advanced

Elementary
General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

Sizes 4 to 16; single thread screw.

0290 Bit, Combination drill and countersink (set)

Woodworking: beginning, advanced

Sizes: 34" x #6, #7, #8; 1" x #6, #7, #8; 11/4" x #8, #10;

1½" x #8, #10, #12.

0295 Bit, Combination drill and counterbore (set)

Woodworking: beginning, advanced

Sizes: 1" x #8, #10; 11/4" x #8, #10; 11/2" x #10, #12.

Bit, Countersink (see: Countersink Bit (for brace) (set) #1065).

0300 Bit, Electrician's

General Shop

Woodworking: advanced 18"L x 5/16" diameter.

0305 Bit, Expansive

Elementary

General Shop

Woodworking: beginning, advanced Boring: from \%" to 3"; square tang.

0310 Bit, Extension

Woodworking: beginning, advanced

18-inch.

0315 Bit, Forstner (brace set)

Woodworking: beginning, advanced

Sizes: 6, 8, 10, 12, 14, 16 (in 16ths of an inch).

0320 Bit, Forstner (machine set)

General Shop

Woodworking

 $\frac{1}{2}$ -inch shank; sizes: 6, 8, 10, 12, 14, 16 (in 16ths of an inch).

0325 Bit, Multi-spur (set)

Woodworking: beginning, advanced

Set of 11; sizes: $\frac{1}{2}$ " to 1" by 16ths plus $1\frac{1}{8}$ " and $1\frac{1}{4}$ ".

0330 Bit, Plug cutter (set)

General Shop

Woodworking: beginning, advanced

Set of 5, sizes: 3/8", 1/2", 5/8", 3/4", 1".

0335 Bit, Screwdriver (set)

Electricity-Electronics: beginning, advanced

General Shop

Square tang; for use with brace; $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ".

0340 Bit, Speed (set)

Electricity-Electronics: beginning, advanced

Sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 1".

0345 Bit, Twist, Car

Woodworking: beginning, advanced

3/8" x 18" with square tang.

0350 Bleeder, Brake

Auto and Power Mechanics: beginning, advanced

Lightweight pressure tank; capacity 1 gallon; pressure dial 0-60 lbs.; safety valve set for 40 lb. release; means of checking fluid level visibly; fluid shut-off valve on hose; sediment screen; with adapters to accommodate all makes of cars and light trucks.

0360 Block, Proofing

Graphic Arts: beginning, advanced

 $3\frac{1}{4}$ " x 8" x $2\frac{1}{2}$ "; maple wood; varnished; leather top faced with easily replaced thick felt.

0365 Block, Sanding

Woodworking: beginning, advanced

Rubber, to use 23/4" x 9" paper.

0370 Blow Torch

Elementary

Portable propane torch with pencil burner and replaceable cylinder.

0375 Blunger

Ceramics: beginning, advanced

For casting and forming; 1/4 HP; smaller size adequate for school or studio.

0380 Board, Cutting

Elementary

Maple; approximately 3/4" x 8" x 10"; for leather.

0385 Board, Drafting

Drafting: beginning, advanced

General Shop

Seasoned basswood, zinc-plated steel end cleats, both front and back

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sanded smooth to provide two drafting surfaces, sizes optional, recommend 18" x 24" for beginning, either 24" x 36" or 31" x 42" for advanced, all boards $\frac{3}{4}$ " thick.

0390 Boards, Pressing

Graphic Arts: beginning, advanced

3/4" x 9" x 12"; hard maple; glued narrow strip construction to prevent warping; smooth finish; metal bindings fastened with screws.

0395 Body-Fender Tools (set)

Auto and Power Mechanics: beginning, advanced ·

Toe dolly; heel dolly; general purpose dolly; anvil dolly; $26\frac{1}{2}$ "L body pick with slight curve sharp point; 31"L body pick with curve and point at right angles to shaft; hammers: reverse curve light bumping, wide face shrinking, picking and dinging, pick; vixen files: flat, half round, curved round, curved flat.

0400 Bone Folder

General Shop

Graphic Arts: beginning, advanced

1"W x 8"L; one pointed end; made of genuine bone; polished.

0405 Bookcase

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced

Plastics: beginning, advanced

Metalworking: beginning, advan

Metalworking: beginning, advanced Woodworking: beginning, advanced

Approximately 60" high, 10" to 12" deep, 72" long; closed back shelving with 3 shelves adjustable by increments of $\frac{1}{2}$ ", wood or metal; open.

Graphic Arts: Steel safety cabinet with sliding tambour doors; 3 adjustable shelves; lock and key; dustproof; 30 ½"W x 37½"H x 17"D.

0410 Borders, Decorations, Miscellaneous

General Shop

Type high.

0415 Boring Bar (set)

Metalworking: advanced

Set of 3 bars, $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " dia. bars with 90°, 45°, and 30° end caps.

0420 Boring Bar (cylinder set)

Auto and Power Mechanics: advanced

Capacity 2.600".5.250" to depth of 14" cutting at speed of 1\%" per minute; \% HP, 3 Amp. 115V motor; with accessories.

0425 Bax, Clay Storage, Portable

Ceramics: beginning, advanced

General shop

Metal lined for storage of damp materials; with casters.

0430 Brace, Ratchet

Electricity-Electronics: beginning, advanced

Elementary General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

10-inch; box ratchet; universal jaws; ball bearing head.

0435 Bracket, Saw horse (pair)

Woodworking: beginning, advanced

Steel; for 2" x 4" lumber.

0440 Brad Driver

Elementary

Automatic; self-centering.

0445 Brake Adjusting Tool (Spoons) (set)

Auto and Power Mechanics: beginning, advanced

1 Bendix 8"L; 1 Chevrolet adjusting tool 51/4"L; 1 Brake adjusting tool 81/4"L.

0450 Brake, Box and pan

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

24-inch, capacity 16 ga., depth of box 3", adjustable angles 0° to 135°.

0455 Brake, Service shop machine

Auto and Power Mechanics: advanced

Mobile; 1 brake drum lathe with ½ HP motor, and all standard accessories, including adapters for all passenger cars and light trucks; mobile bench with accessory storage board; brake shoe grinder with 1/3 HP motor and all standard accessories; universal brake drum micrometer; brake surface cylinder hone; brake shoe grinding clamp.

0460 Brayer, Block printing

Elementary

Graphic Arts: beginning, advanced

4-inch width.

0465 Broom, Push

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced 18-inch length; 3-inch trim; with handle.

0470 Brush, Bench

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

8-inch brush, 13" overall.

0475 Brush, Bookbinder's

Graphic Arts: beginning, advanced

1" or 11/2" diameter; round; grey elastic bristles copper bound and vulcanizer in rubber.

0480 Brush, Duster, Draftsman's

Drafting: advanced

General Shop

 $2\frac{1}{2}$ -inch white bristles, staple set in hardwood, 5" handle, 13" overall length, flat beveled style.

0485 Brush, Flat padding

Graphic Arts: beginning, advanced

11/2"W; nickel plater ferrule vulcanized in rubber; black bristle.

0490 Brush, Opaque

Graphic Arts: beginning, advanced

Sizes 00 and 1; camel hair; needle sharp; extra stiff; narrow.

0495 Brush, Type

Graphic Arts: advanced

Approximate size 21/2" x 5"; hardwood oval back; stiff hair bristles.

0500 Brush, Wire

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Overall length: 10"-14", width 1" wire length approximately 1-3/16".

0505 Buffer, Long arm

Metalworking: advanced

Long arm on pedestal, 33" between wheels, 5%" arbor; motor: 34 HP,

3450 RPM, 220V, 3 phase, 600 cycles; magnetic starter.

0510 Buffer, Pedestal

Elementary

General Shop

Metalworking: beginning

Plastics: beginning, advanced

 $2-6" \times 1"$ muslin wheels, wide celarance design; motor: 1/3 HP, 1725 RPM, 115V, single phase, 60 cycle; manual starter with overload protection.

Plastics: Add: built-in dust collector with filters and dust bag, illumination over wheels.

0515 Bulb, Sponge

General Shop

Metalworking: beginning, advanced 8 oz., rubber bulb, camel hair brush.

0520 Burnisher

Elementary

General Shop

Woodworking: beginning, advanced Round, tempered steel, 41/2" blade.

0525 Cabinet, Damp-proof

Ceramics: beginning, advanced

General Shop

Base type; keeps clay MOIST AND WORKABLE. Double-wall type door. Interior of tempered zinc panels. Doors close against molded rubber gasket. Size 18"D x 36"L x 31"H.

0530 Cabinet, Drying

Ceramics: beginning, advanced

General Shop

Base type; constructed of steel and expanded metal. Has interior shelf. 18"D x 36"L x 31"H. Low heat supply with air exhaust. Baked enamel finish.

0535 Cabinet, Drying rack

Graphic Arts: beginning, advanced

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Steel construction with reinforced top; 4 legs; open sides; to include 14 drying racks $20'' \times 28\frac{1}{2}'' \times 1\frac{1}{8}''$; racks removable from table; inter-locking side rails to prevent shifting; floor space $25'' \times 30''$; height 40''.

0540 Cabinet, Filing

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Four drawer, full cradle suspension, full plunger lock, aluminum hardware, size $52^{\prime\prime}$ H x $15^{\prime\prime}$ W x $28\frac{1}{2}^{\prime\prime}$ D.

0542 Cabinet, Finishing (storage)

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

All steel construction; adjustable shelves; 2 doors with locks.

0545 Cabinet, Film cutter

Graphic Arts: advanced

Steel construction; light tight; 4 drawers; large storage area near bottom; to accommodate 20" x 24" film; 24" trimmer mounted on top of cabinet; side shelf mounted on right side; floor dimensions 36" x 25".

0550 Cabinet, Galley

Graphic Arts: beginning, advanced

Heavy gauge steel; welded unit construction; galley runs of steel with smooth finish and providing ample clearance for easy movement of galleys; hard baked enamel finish; galleys capacity 50; galley size $8\frac{3}{4}$ " x 13" or 10" x 16".

0555 Cabinet, Glaze and library

Ceramics: beginning, advanced

For filing sample glazes, reference manuals and catalogs. With 10 removable compartments. $12^{\prime\prime}D \times 36^{\prime\prime}W \times 13\frac{1}{2}^{\prime\prime}H$. With shelf $22^{\prime\prime}H$. Compartment $3^{\prime\prime} \times 9^{\prime\prime} \times 11^{\prime\prime}$.

0560 Cabinet, Ink and roller

Graphic Arts: beginning, advanced

30"W x 25"D x 40"H; steel construction; top of heavy steel; drawer

at top divided into 3 equal sections, one to include a 10" x 12" ink mixing slab; 2 hinged doors with locks below the drawer; left section contains 3 vertical slides, each of which can hold 6 rollers, maximum 24"L; right section contains 3 large ink shelves and a rag bin.

0565 Cabinet, Instrument storage

Electricity-Electronics: beginning, advanced 30'W x 18"D x 72"H w/adjustable shelves and lock.

0570 Cabinet, Mechanics, Roller

General Shop $27\frac{1}{4}$ " x $18\frac{1}{4}$ " x 32"H, with 3 drawers and storage compartment.

0575 Cabinet, Machine accessory

Woodworking: beginning, advanced $2\frac{1}{4}$ " x 22" x 54" edge-grain laminated hard maple top; base of either wood or metal, containing eight drawers; base size 36"W x 21"D x 31"H.

0580 Cabinet, Nail and screw storage

Woodworking: beginning, advanced $22\frac{1}{2}$ " high; 48 see-through plastic drawers; drawer size $2\frac{3}{4}$ "W x 1.7/16"D x $5\frac{1}{8}$ "L.

0585 Cabinet, Paper and drawing storage

General Shop Hardwood, 84" x 48" x 24", adjustable shelves, w/lock.

0590 Cabinet, Parts storage

Electricity-Electronics: beginning, advanced

Plastics: beginning, advanced

Metal, individual drawers approximately $5\frac{1}{4}$ " x $2\frac{3}{4}$ " x $11\frac{3}{6}$ ", approximately 100 drawers.

0595 Cabinet, Plate filing

Graphic Arts: beginning, advanced

 $14''W \times 24''D \times 25\frac{1}{2}''H$; steel construction; dustproof; mounted on 4 ball bearing steel wheels; swivel style; must accommodate hanger-envelopes, clip style hangers and hook style hangers; storage capacity: $150-10'' \times 14''$ press plates and regatives, $75-11'' \times 17''$, $14'' \times 17''$, $14'' \times 20''$ press plates and negatives; to include hanger-envelopes, clip-hangers, hook-hangers.

0600 Cabinet, Proof press

General Shop Metal, 36" x 24" x 50"H.

0605 Cabinet, Quarter case

Graphic Arts: beginning, advanced 10¾"W x 18¼"D x 38¼"H; steel construction; capacity for 20 quarter size cases; furnished with 12 assorted cases: 2 rule cases,



2 space and quad cases, 2 handy pack cases, 2 figure cases, 2 small cap font cases, 2 figure and fraction cases.

0610 Cabinet, Sheet plastics storage

Plastics: beginning, advanced

Metal; vertical dividers providing 12 bins, each approx. 4"W x 24"D x 36"H; door w/lock.

0615 Cabinet, Small parts

Metalworking: beginning, advanced

Steel; 36"W x 12"D x 73"H; one bin 36"W x 12"D x 11"H; three bins 12"W x 12"D x 12"H; six bins 6"W x 12"D x 12"H; one 24 drawer unit, each drawer 51/4"W x 11"D x 13/8"H; two 18 drawer units, each drawer 51/4"W x 11"D x 25/8"H w/two adj. dividers per drawer: 18 box drawers 81/4"W x 11"D x 45/8"H w/one adj. divider per drawer; double doors w/lock.

Cabinet, Storage 0620

Drafting: beginning, advanced

Elementary

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

Drafting: 2-door; overall size 36" x 24" x 78"; one piece welded frame construction, w/four shelves, adjustable on 2" centers; three point locking device, chrome door handles and full, flush sanitary base.

Elementary: Steel construction, double swing-type doors, movable shelves, approx. 36" x 78" x 24"D.

Graphic Arts: 76"H x 36"W x 181/2"D; heavy steel construction; lock and key provided; 2 swinging doors; 4 adjustable shelves.

Metalworking: Steel; 36"W x 18"D x 78"H; swinging double door style; 4 adj. shelves; three point locking device and lock; flush base.

Plastics: Metal; combination of bins and shelves; doors w/locks; approx. size 36" x 12" x 84".

Woodworking: 32"W x 22"D x 84"H; 4 full-width shelves 29"W x 19"D, adjustable; wood or metal construction.

Cabinet, Tool storage 0625

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

Approx. 62"W x 22"D x 84"H; constructed of heavy maple framing and birch plywood panels; doors 11/8" thick; locks and hardware heavy duty; upper section and doors form panels for tools, lower section for storage; with tote trays and/or adjustable shelves, with doors and locks.

0630 Cabinet, Type, Double tier

General Shop

 $72'' \times 37\frac{3}{4}''$, height of sloping back $40\frac{1}{2}''$; lead and slug rack, w/44 type cases.

0635 Cabinet, Type, Single tier

Graphic Arts: beginning, advanced

Steel construction; school type; steel working top sloping front and back; 22 case body includes 1 steel front blank case, 2 steel front wells job cases, 19 steel front California job cases; includes a lead and slug rack, galley and quarter case unit; locking device for cases; floor space $32\frac{1}{4}$ " x $42\frac{1}{2}$ "; height to work surface 41"; overall 46"H; work area each side $32\frac{1}{4}$ " x 17".

0640 Caliper, Hermaphrodite

Auto and Power Mechanics: advanced Metalworking: beginning, advanced 6" length; lock joint, w/adjustable point.

0645 Caliper, Inside (6")

Auto and Power Mechanics: beginning, advanced

Drafting: advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Solid nut; bow spring.

0650 Caliper, Inside (8")

General Shop

Solid nut; bow spring.

0655 Caliper, Outside (6")

Auto and Power Mechanics: beginning, advanced

Drafting: advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Solid nut; bow spring.

0660 Caliper, Outside (8")

General Shop

Metalworking: advanced Solid nut; bow spring.

0665 Caliper, Vernier

Auto and Power Mechanics: advanced

Metalworking: advanced

5" capacity readable in thousandths with vernier. Inside and outside jaws and depth gauge, locking device and friction roller.

0670 Camera, Copying

Graphic Arts: advanced

Horizontal, dark room type, process camera; all metal, primarily of aluminum castings, construction; focusing accomplished by means of accurate scales; vacuum film holder, hinged to camera; ground glass, hinged to camera; electric timer and control panel to control the solenoid shutter and the camera lamps; lens, color corrected, multi-element, enlargement 2 times, reduction 5 times, anastigmat; copyboard, glass covered frame, equipped to take irregular copy thickness; lamps, 4 incandescent 1500 watt bulbs; flash lamp, attached for flashing through the lens; maximum film size 16" x 20"; single phase, 110 V, AC, 60 cycle.

0675 Camera, Range finder (35mm)

Graphic Arts: beginning, advanced

Includes single-vindow range and viewfinder with life-size image; f/2.8 lens; speed 1 second to 1/1000th and B; one stroke film advance and shutter-wind lever; automatic flash synchronization for both conventional flash bulbs and electronic flash; built-in self timer (up to 10 seconds delay); shutter-coupled exposure meter; flash unit; gadget bag for camera and accessories.

0680 Camera, Reflex, Single lens (35mm)

Graphic Arts: beginning, advanced

Pentaprism viewfinder; multi-split range finder; 50mm f 1.9 fully automatic lens; rapid rewind crank; rapid film winding lever; exposure counter; shutter speed of 1 second to 1/1000 second and bulb; easy lens removal; flash unit (conventional); extension tubes for close-up work; wide angle lens; telephoto lens.

0685 Camera, Reflex, Twin lens

Graphic Arts: beginning, advanced

Interchangeable lenses, equipped with 105mm f 3.5 normal focus lens, 65mm f 3.5 wide angle lens, and 180mm f 4.5 telephoto lens; 1 second to 1/500th lens speed; rapid-wind crank which prevents accidental double exposures, but does permit when desired; removable viewing hood which interchanges with eyelevel finders; cable release socket; standard flash; gadget bag for camera and accessories.

Can, Benzene (see: Container, Benzene #1045)

0690 Can, Carwash

Auto and Power Mechanics: advanced

3 gallon; galvanized pail.

0695 Can, Oil filler and measure (1 qt.)

Auto and Power Mechanics: beginning, advanced Copper plated steel construction.

0700 Can, Oil filler and measure (2 qt.)

Auto and Power Mechanics: beginning, advanced

Copper plated steel construction.

0705 Can, Oil filler and measure (5 qt.)

Auto and Power Mechanics: beginning, advanced Copper plated steel construction.

0710 Can, Oily waste

Auto and Power Mechanics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced

10 gal. capacity; Underwriter's Laboratory approved; foot opening,

automatic closing.

0715 Can, Radiator

Auto and Power Mechanics: advanced 2 gallon capacity; plastic; curved spout.

0720 Can, Safety (1 qt.)

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced Metal: one qt. capacity; spout w/safety spring hand lever to open;

with safety screen in nozzle.

0725 Can, Safety (1 gal.)

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced

Metal; one gal. capacity; spout w/safety spring hand lever to open;

with safety screen in nozzle.

0728 Can, Safety (5 gal.)

Metal, five gallon capacity; spout with safety spring hand lever to open; with safety screen in nozzle.

0730 Capacitor Substitution Box

Electricity-Electronics: beginning, advanced 100 mmf. to .111 mfd.; 350 WVDC.

0735 Carburetor Repair Set

Auto and Power Mechanics: advanced

Clear ing tank; cleaning solvent; tools in sets according to brand of carburetor.

0740 Cards, Alphabet (set)

Graphic Arts: beginning, advanceu

Sturdy tracing cards to show complete alphabet characters of display type; sizes 12 to 72 point; approximately 125 cards with about 75 popular type faces; each card shows complete upper and lower case alphabets, including figures and punctuation marks; printed both sides on durable bristol; round cornered; set includes wooden box with hinged top to hold complete set.

0745 Cart, Stock

Elementary

Metal construction; approx. 36"L x 24"W x 32"H; equipped with 5" rubber wheeled casters, 2 swivel, 2 stationary.

0750 Cart, Tool

Elementary

Mobile cart to be moved from classroom to classroom. Designed to accommodate 20 students. Provision for nails, screws, fasteners, and miscellaneous supplies plus the following tools, which are "junior sized" whenever possible:

8 auger bits
4 back saws
2 braces
16 4" "C" clamps
6 jack planes
6 block planes
1 combination pliers
1 side cutting pliers

12 coping saws with blades
8 crosscut saws
1 countersink
2 dividers
1 hand rip saw
6 wooden rules
1 scratch awl
3 screwdrivers

2 dividers
7 assorted files
2 pr. scissors
2 file cards
4 try squares
4 try squares

2 hand drills
3 keyhole saws
2 nail sets
6 serrated files with
extra blades
6 portable vises

Carving Tools (see: Chisel, Carving #0775)

Ceramic Molding Tool (see: Modeling Tool #2705)

0755 Chair, Teacher's

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

Welded-steel construction; swivel base w/casters.

Charger, Battery (see: Battery Eliminator and Charger #0130)

0760 Chases, Platen

General Shop

Graphic Arts: beginning, advanced

Cast iron; size to fit platen press; handle-type recommended.

0765 Chisel, Butt (set)

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

3" blade; plastic handles; sizes: $\frac{1}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", $\frac{1}{4}$ ", $\frac{11}{4}$ ", $\frac{11}{2}$ ".

0770 Chisel, Cape

General Shop

Metalworking: beginning, advanced

1/2" stock, 1/4" cutting edge.

0775 Chisc!, Carving (set)

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

Set of 6 chisels and gouges; for light wood and linoleum carving;

approx. 6" long.

0780 Chisel, Cold (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Cutting edges of 1/4", 3/8", 1/2", 3/4".

0785 Chisel, Diamond point (set)

Metalworking: beginning, advanced

1/4", 3/8", 1/2" bits.

0790 Chisel, Gouge, Inside (set)

General Shop

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Woodworking: beginning, advanced

Sizes: 1/4", 3/8", 1/2", 3/4", 1".

Chisel, Gouge, Outside (set) 0795

Woodworking: beginning, advanced Set of 5; sizes 1/4", 3/8", 1/2"; 3/4", 1".

Chisel, Round nose (set) 0800

Metalworking: beginning, advanced 1/4", 3/8" bits.

Chisel, Socket firmer (set) 0805

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

Set of 6; sizes 1/4", 3/8", 1/2", 5/8", 3/4", 1".

Chisel, Thonging (4-prong) 0810

Elementary

1/8"; tempered spring steel blades; chrome plated; hand ground cutting edges.

Chisel, Thonging (3-prong) 0815

Elementary

1/8"; tempered spring steel blades; chrome plated; hand ground cutting edges.

Chisel, Thonging (single-prong) 0820

Elementary

1/8"; tempered spring steel blades; chrome plated; hand ground cutting edges.

0825 Chisel, Thonging (single-prong)

Elementary

3/32"; tempered spring steel blades; chrome plated; hand ground cutting edges.

Chisel, Thonging (set) 0830

General Shop

1, 2, 3, and 4 prong; sizes: 3/32" and 1/8"; tempered spring steel blades; chrome plated; hand ground cutting edges.

Chisel, Wood turning (set) 0835

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

Hardwood handles w/metal ferrules and overall length of at least 17"; basic set of 8 to include 1 each: 1" skew chisel, 1" gauge, 1/2" skew chisel, $\frac{5}{8}$ " gauge, $\frac{1}{2}$ " round nose, $\frac{3}{8}$ " gauge, $\frac{1}{2}$ " spear point, 1/2" parting tool; optional: 1/2" diamond point chisel, 1/2" left skew chisel, $\frac{1}{2}$ " right skew chisel, $\frac{1}{4}$ " round nose chisel, $\frac{1}{4}$ " diamond nose chisel, $\frac{1}{4}$ " square chisel.

0840 Chuck, Magnetic

Metalworking: advanced

Permanent ceramic; 4" x 8½" work surface.

0845 Circle Cutter

Plastics: beginning, advanced

Woodworking: beginning, advanced

Heavy duty; 1/2" round shank; capacity 1" to 8" dia.; six extra tool bits.

0850 Clamp, Bar (36")

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

I-bar with solid handle.

0855 Clamp, Bar (48")

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

I-bar with solid handle.

0860 Clamp, Bar (60")

General Shop

I-bar with solid handle.

0865 Clamp, "C" (2")

Elementary

Steel screw; malleable iron clamp.

0870 Clamp, "C" (3")

Elementary

General Shop

Woodworking: beginning, advanced

Steel screw; malleable iron clamp.

0875 Clamp, "C" (4")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Woodworking: beginning, advanced

Steel screw: malleable iron clamp.

0880 Clamp, "C" (6")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced Steel screw; malleable iron clamp.

0885 Clamp, "C" (8")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced Steel screw; malleable iron clamp.

0890 Clamp, "C" (10")

Auto and Power Mechanics: beginning, advanced Metalworking: advanced

Steel screw; malleable iron clamp.

0895 Clamp, "C" (12")

Metalworking: beginning, advanced Steel screw; malleable iron clamp.

0900 Clamp, Corner

Woodworking: beginning, advanced 3" capacity.

0905 Clamp, Fixture (set)

Woodworking: beginning, advanced For use with 34" pipe.

0910 Clamp, Handscrew (#3/o)

General Shop

Woodworking: beginning, advanced Hardwood; jaws open 3", length 6".

0915 Clamp, Handscrew (#0)

General Shop

Woodworking: beginning, advanced Hardwood; jaws open 4½", length 8".

0920 Clamp, Handscrew (#1)

General Shop

Woodworking: beginning, advanced Hardwood; jaws open 6", length 10".

0925 Clamp, Handscrew (#2)

General Shop

Woodworking: beginning, advanced Hardwood; jaws open 8½", length 12".

0930 Clamp, Handscrew (#3)

General Shop

Woodworking: beginning, advanced Hardwood; jaws open 10", length 14".

0935 Clamp, Mitre frame

Woodworking: beginning, advanced

With 4 extension rods to give max. capacity of 25" x 24".

0940 Clamp, Spring (#2)

Elementary

General Shop

Heavy gauge steel; jaws open 2".

0945 Clamp, Spring (#3)

Plastics: beginning, advanced Heavy gauge steel; jaws open 3".

0950 Cleaner, Ring groove

Auto and Power Mechanics: beginning, advanced

To remove carbon from ring grooves without injury to piston; to service all pistons with 5/64, 3/32, $\frac{1}{8}$, or 3/16 ring grooves; piston range $2\frac{1}{2}$ "-5".

0955 Cleaner, Spark plug

Auto and Power Mechanics: beginning, advanced

Spark indicator test dial; set of rubber cleaner adapters; needle valve for control of air tester; rubber covered high tension wire and clip; double filter cleaner bag; automatic air line vapor trap.

0960 Cleaner, Valve guide

Auto and Power Mechanics: advanced

Wire brush; twisted wire shank; 5/16", 11/32", 3/8", 7/16" diameters.

0965 Clutch Aligner (set)

Auto and Power Mechanics: advanced

Locks onto pilot bearing and leaves operator's hands free.

0970 Coil Winder

Electricity-Electronics: beginning, advanced

Capacity 22 to 40 gals.; wire with turns checker.

0975 Compass and Divider (set)

Drafting: beginning, advanced

General Shop

Includes large $6\frac{1}{2}$ ", rapid action, bow compass with lengthening bar to draw circles up to 11" diameter; 6", hairspring, friction-head divider with straightening device; both instruments to be flat type, nickel-silver, chrome plated.

0980 Compass, Beam

Drafting: beginning, advanced

24"; nickel-silver; chrome plated; with appropriate bars; coupler; micrometer adjustment needle center; pencil and pen needle point.

0985 Compass, Chalkboard

Drafting: beginning, advanced

General Shop

16" minimum length; metal or wood; friction joint; elbows; rubber tip; collet lock for chalk and tip.

0990 Compass, Drop bow

Drafting: advanced

4" drop bow compass; with interchangeable pen and pen points; German silver with tempered stainless steel needle point.

0995 Compass, Pencil

Elementary

General Shop

Woodworking: beginning, advanced With or without graduated protractor.

1000 Composing Stick (6")

General Shop

Graphic Arts: beginning, advanced

Two piece stick equipped with a smooth finish knee; sets to picas and nonpareils; 4 teeth on the knee fiit into rectangular slots in the rear wall of the body; 2"W; 6"L; graduated to 22 picas.

1005 Composing Stick (10")

General Shop

Graphic Arts: beginning, advanced

Two piece stick equipped with a smooth finish knee; sets to picas and nonpareils; 4 teeth on the knee fit into rectangular slots in the rear wall of the body; 2"W, 10"L; graduated to 46 picas.

1010 Composing Stick (12")

Graphic Arts: beginning, advanced

Two piece stick equipped with a smooth finish knee; sets to picas and nonpareils; 4 teeth on the knee fit into rectangular slots in the rear wall of the body; 2"W, 12"L; graduated to 58 picas.

1015 Composing Stick (15")

. Graphic Arts: beginning, advanced

Two piece stick equipped with a smooth finish knee; sets to picas and nonpareils; 4 teeth on the knee fit into rectangular slots in the rear wall of the body; 2"W, 15"L; graduated to 73 picas.

1020 Composing Stick, Micrometer knee (10")

Graphic Arts: beginning, advanced

Two piece stick with a smooth finish knee; micrometer screw for instant setting to picas, nonpareils, and fractions of a point; 2"W, 10"L; graduated to 46 picas.

1025 Compressor, Air

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Woodworking: beginning, advanced

120 p.s.i.; 1 stage; tank mounted; $1\frac{1}{2}$ HP, 3-phase, 208V motor; 60 gallon tank; safety valve; drain cock; automatic pressure control; beltguard; pressure gauge; 4.5 cu. ft. per min. delivered output at rated pressure.

(Note: This compressor not suitable for operating automotive hoist.)

1030 Compressor, Piston ring (set)

Auto and Power Mechanics: beginning, advanced

General Shop

Capacity 1%" to 7"; bands of high spring steel; self locking heavy duty ratchet pawl; double friction brake adjustment.

1035 Compressor, Valve spring

Auto and Power Mechanics: beginning, advanced

General Shop

Valve spring lifter; parallel jaws; scissor action; upper and lower jaws adjustable; heavy duty construction; lock to hold positively at any height;

or: Clamp type valve lifter; universal type for $\frac{7}{8}$ " to $2\frac{1}{2}$ " spring diameters; with accessories (jaw extensions, etc.); for use on cars, trucks; L-head and valve-in-head engines; heavy duty.

Container, Benzene (1 quart) (see: Can, Safety-0720)

Container, Benzene (1 gallon) (see: Can, Safety-0725)

Container, Benzene (5 gallon) (see: Can, Safety-0728)

1060 Container, Plaster

Plastics: beginning, advanced

100 lb. capacity; metal or plastic, with covers.

1065 Countersink Bit (for brace) (set)

Elementary

General Shop

Metalworking: beginning

Plastics: beginning, advanced

Woodworking: beginning, advanced

Sizes: \%" and \%".

1070 Countersink, High speed

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning

Woodworking: beginning, advanced

1/4" shank; 1/2" size.

1075 Crane, Portable

Auto and Power Mechanics: advanced

2 ton capacity; hydraulic; double action pump; adjustable, 3 position beam; with chain and hook.

1080 Creaser, Adjustable edge

General Shop

Hardwood handle; width of crease regulated by thumb screw.

1085 Creeper

Auto and Power Mechanics: beginning, advanced

Padded headrest; 31/4" angle axle casters; 16"W x 36"L.

1090 Crimping Tool

Electricity-Electronics: beginning, advanced

Crimps various solderless wire terminals. Available with wire cutters and strippers combined. Shears machine screws without damage to threads.

1095 Crucible (#4)

Metalworking: beginning, advanced

Silicon carbide.

1100 Crucible (#10)

Metalworking: beginning, advanced

Silicon carbide.

1110 Crucible Hand Shank (#10)

Metalworking: beginning, advanced

One-man; for #10 crucible.

1112 Crucible Hand Shank (#4)

Metalworking: beginning, advanced

One-man; for #4 crucible.

1115 Crucible Lifter

Metalworking: beginning, advanced

Two-man; #1 for #8, #10, #12 crucible.

1120 Crucible Ring Shank

Metalworking: beginning, advanced

Two-man; for #8, #10, #12 crucible.

1125 Crusher, Jaw (laboratory model)

Ceramics: advanced

1130 Curve, Irregular (set)

Drafting: beginning, advanced

General Shop

Transparent, professional quality, non-discoloring plastic irregular curve set; 8 curves; .060 thick; sizes 8, 10, 12, 13, 15, 16, 18, 20.

1135 Curve, Rule (adjustable)

Drafting: advanced

Adjustable curve rule with square lead-bar sliding between steel ribbons; parts covered with rubber with rounded ruling edges; will bend to $1\frac{1}{2}$ " circle and larger; 31" in length.

1140 Cutter, Bolt

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Minimum 14"; %" soft bolt capacity; cutting jaws hardened steel, replaceable.

1145 Cutter, Bushing

Auto and Power Mechanics: advanced

For splitting soft metal bushings; $7/16'' \times 3/16''$ bit; $\frac{1}{2}''$ stock; 7'' long chip curler to push metal away from work.

1150 Cutter, Glass

Elementary

General Shop

Woodworking: beginning, advanced

1155 Cutter, Lead and slug

General Shop

Graphic Arts: beginning, advanced

Settings from a nonpareil to 106 picas; self locking gauge.

1160 Cutter, Linoleum (set)

Elementary

General Shop

Graphic Arts: beginning, advanced

Push-type cutters; set of 5 assorted cutters and handle.

1165 Cutter, Linoleum (set)

Elementary

Pull-type cutters; set of 5 assorted cutters and handle.

1170 Cutter, Milling Machine, End (set)

Metalworking: advanced

High speed steel; actual type and size to be specified according to need and machine size.



1175 Cutter, Milling Machine, Gear tooth, Involute (set)

Metalworking: advanced

High speed; diametral pitch and number of cutter forms to be specified according to need.

1180 Cutter, Milling Machine, Helical, Plain

Metalworking: advanced

High speed steel; diameter, width of face and arbor hole to be specified according to need.

1185 Cutter, Milling Machine, Shell and arbor

Metalworking: advanced

High speed steel; actual sizes and types to be specified according to need and machine size.

1190 Cutter, Milling Machine, Slitting saw

Metalworking: advanced

High speed steel; diameter, thickness, arbor hole and number of teeth to be specified according to need.

1195 Cutter, Muffler

Auto and Power Mechanics: advanced

Adjustable $1\frac{1}{2}$ " to $2\frac{1}{2}$ "; 4 cutting wheels; threaded shaft adjustment.

1200 Cutter, Paper

Drafting: beginning, advanced

General Shop

Graphic Arts: beginning, advanced

24"; scoring every ½ inch on hardwood surface; top and bottom scale; removable, self-sharpening blade of hardened tool steel; slide guide; safety spring to prevent handle from flying up or dropping.

1205 Cutter, Pipe

Auto and Power Mechanics: advanced

Metalworking: advanced

Capacity \(\frac{1}{8}'' \) to \(1'' \) diameter; 2 rollers; reamer blade; replaceable cutter blade.

Cutter, Plug (see: Bit, Plug cutter (set) #0330)

1210 Cutter, Round corner

Graphic Arts: beginning, advanced

Pedestal model; foot operated; $2\frac{1}{2}$ " capacity; adjustable 45° angle gauge; includes 1 each #2, #1, #0, #00 knives.

1215 Cutter, Sprue

Metalworking: beginning, advanced 34" x 10".





1220 Cutter, Tubing

Auto and Power Mechanics: beginning, advanced General Shop

1/8" to 1" capacity.

1225 Cutting-Off Tool, Lathe

Metalworking: beginning, advanced Straight shank; with beveled cutter and wrench.

1230 Densitometer, Photo

Graphic Arts: advanced

Logarithmic scale meter; blue probe; set of 5 measuring apertures; 110V.

1235 Desk, Teacher's

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary
General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

Approximately 42" x 30" x 29"H; welded steel construction; single pedestal with file drawer and tool drawer both lockable. Top drawer extends across front and is reference drawer approximately 24" x 36" x 23%" deep. Desk top can be heavy duty linoleum with stainless steel or aluminum edging or can be laminated plastic with laminated plastic edging.

1240 Desk, Teacher's standing

Drafting: beginning, advanced

Approximately 36" x 26" x 42"H at front, 53"H at back; welded steel construction; pigeonhole back; locking drawer at front; (use with instructor's stool #4610).

1245 Die, Dapping

Metalworking: beginning, advanced $2\frac{1}{2}$ " cube; 21 spheres 3/16" to $2\cdot 3/16$ ".

1250 Die, Letter (set)

Auto and Power Mechanics: beginning, advanced

Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced



Metalworking: beginning, advanced Woodworking: beginning, advanced

For hard surfaces; 3/16" character height.

1255 Die, Number (set)

Auto and Power Mechanics: beginning, advanced

Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Woodworking: beginning, advanced

For hard surfaces; 3/16" character height.

Dispenser, Automatic transmission oil (see: Funnel, Longspout, Automatic transmission #1670)

1260 Dispenser, Cellophane tape

Graphic Arts: beginning, advanced Heavy duty; 72 yard roll capacity.

1265 Dispenser, Drafting tape

Drafting: beginning, advanced

For both portable and stationary application; cuts all kinds and widths of tape rolls up to $1\frac{1}{2}$ "; fits both 3" and 1" cores; holds rolls up to $7\frac{3}{4}$ "O.D.

1270 Dispenser, Gummed paper

Graphic Arts: beginning, advanced

Automatic moistener; dispenses $\frac{1}{2}$ " to $1\frac{1}{2}$ " tape; rustproof construction.

1275 Display Board

Drafting: beginning, advanced

Aluminum frame: adjustable; chart hangers at top; cork composition; 48"W x 48" to 96"L with 96"L preferred if space permits.

1280 Divider, Blackboard

Drafting: beginning, advanced Hardwood.

1285 Divider, Proportional

Drafting: advanced

 $7\frac{1}{2}$ " or larger; direct reading for lines in ratios from 3:4 to 1:10 and for circles in ratios from 4 to 20; German silver.

1290 Divider Spring (4")

Metalworking: advanced Solid nut; Yankee pattern.

1295 Divider Spring (6")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Solid nut.

1300 Divider Spring (8")

General Shop

Metalworking: advanced

Solid nut.

1305 Divider, Wing

Electricity-Electronics: beginning, advanced

Elementary

Woodworking: beginning, advanced

6"; steel; polished brass joints.

1310 Dolly, Body (set)

Auto and Power Mechanics: advanced

1317 Dowel Centers (pairs) (set)

Woodworking: beginning, advanced

1/4", 5/16", 3/8", 1/2".

Dowelling Jig (see: Jig, Dowelling #2245)

Drafting set (see: Compass and Divider (set) #0975)

1320 Dresser, Abrasive wheel

Auto and Power Mechanics: beginning, advanced

Elementary

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Diamond or hooded Huntington-type with extra star cutters. (Must

conform to ASA standards.)

1325 Drill, Blacksmith (set)

General Shop

High speed; $\frac{1}{2}$ " shank; sizes $\frac{5}{8}$ ", $\frac{11}{16}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ ",

15/16", 1".

1330 Drill, Electric, Portable (1/4")

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Graphic Arts: beginning, advanced

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Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Key type chuck; ball thrust bearing; no load speed, approximately 2000 RPM (or variable speed); complete with 3-wire cord and plug;

120V; heavy duty; pistol grip with switch built-in.

1335 Drill, Electric, Portable (%")

Auto and Power Mechanics: beginning, advanced

Metalworking: advanced

Heavy duty; 115V; 3 amp; side arm; needle thrust bearings; RPM (1000—no load) (650—load); 3 jaw keyed chuck; pistol grip with switch built-in; three wire cord and plug.

1340 Drill, Electric, Portable (1/2")

Auto and Power Mechanics: advanced

Metalworking: advanced

Heavy duty: 115V; 3 amp; side arm; needle thrust bearings; RPM (1000—no load) (650—load); 3 jaw keyed chuck; pistol grip with switch built-in; three wire cord and plug.

1350 Drill, Hand (1/4")

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

Solid grey-iron wide flange gear and 2 steel pinions; machine cut teeth; 3 jaw chuck; steel frame; hardwood handle and gear knob.

1355 Drill, Hand (3/2")

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Solid grey-iron wide flange gear and 2 steel pinions; machine cut teeth; 3 jaw chuck; steel frame; hardwood handle and gear knob.

1360 Drill Stand, Fractional

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced

Elementary

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

For twist drills from 1/16'' to $\frac{1}{2}''$ by 64ths.

1365 Drill, Twist (letter set)

Electricity-Electronics: beginning, advanced

Metalworking: beginning, advanced

High speed steel; straight shank; letter set A to Z.

1370 Drill, Twist (number set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Metalworking: beginning, advanced

Plastics: beginning, advanced

High speed steel; straight shank; numbers 1 to 60; wire gauge.

1375 Drill, Twist, Straight shank (fractional set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

High speed steel; by 64ths from 1/16'' to $\frac{1}{2}''$.

1380 Drill, Twist, Taper shank (fractional set)

Metalworking: beginning, advanced

High speed; #2 Morse Taper Shank; 5%" to 1" by 8ths.

1385 Dry Press

Ceramics: beginning, advanced

Table model. Overall 15"H x 9"D x $7\frac{1}{2}$ "W. Chromium plated frame. Pressure up to approximately 1 ton by adjusting bar handle. Steel die for 1" disc supplied. Wt. 25 lbs.

1390 Dry, Print

Graphic Arts: beginning, advanced

Rotary type; constant temperature; 12" x 18" chrome plated surface; 110V. Three wire cord and plug.

1395 Duplicating Machine, Spirit

Graphic Arts: advanced

Maximum sheet size $8\frac{1}{2}$ " x 14"; electrically operated; 110V; 250 sheet feed capacity.

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1400 Duplicating Machine, Stencil

. Graphic Arts: advanced

Paper size $8\frac{1}{2}$ " x 14" maximum; electrically operated; 110V; 90 copies per minute; with counter.

1405 Dust Collection System

Woodworking: beginning, advanced

Beginning: Minimum capacity of 500 C.F.M., outside vented, self-contained for installation within laboratory. Minimum motor H.P. of 1/3. Two storage drums with "Y" diverting duct arrangement.

Advanced: Self-contained unit consisting of a medium efficiency low pressure drop centrifugal precleaner and a Dynamic Precipitator of the combined exhauster and dust separator type driven by a 10 HP totally enclosed ball bearing 1800 RPM motor and base for 220/60/3 service. Assembly to be Type D Roto-Clone with Skimmer Precleaner including combination dust storage hoppers. Capacity: not less than 4600 cu. ft. of free air per minute against not less than 6.0 inches water gauge total external pressure when operated at approximately 1000 RPM under which conditions the total power required shall not exceed 8.4 brake horsepower. Ducts from fan to equipment shall be built on the site.

1410 Electricity Demonstration Panel, Teacher's

General Shop

Designed for use by instructors in lecture demonstrations or by students in performing laboratory experiments; panels or boards each covering one of wide range of subjects (i.e. magnetism, Ohm's law, series and parallel circuits, etc.) providing a series of experiments to demonstrate the subject.

1415 Electricity Training Panel, Student's

General Shop

For use by students conducting laboratory experiments; components complement those used in instructor's panel.

1420 Electronics Demonstration Panel, Teacher's

General Shop

Designed for use by instructors in lecture demonstrations or by students in performing laboratory experiments; panel or board each covering one of wide range of subjects (i.e. inductance transistor oscillator, vacuum tube receivers, etc.) providing a series of experiments to demonstrate the subject.

1425 Electronics Training Panel, Student's

General Shop

For use by students conducting laboratory experiments; components complement those used in instructor's panel.

1430 Electroplating Unit

Metalworking: beginning, advanced

50 amps; 0.9 volts.

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1435 Engine, Automobile

Auto and Power Mechanics: beginning, advanced
Used overhead valve, 6-cylinder internal combustion engine; with
transmission and clutch in running condition.

1440 Engine, Diesel

Auto and Power Mechanics: beginning, advanced Small, 100 HP or less; 4-cylinder; 2-cycle

1445 Engine, Outboard motor

Auto and Power Mechanics: beginning, advanced Local purchase.

1450 Engine, Rocket (small or model)

Auto and Power Mechanics: advanced

1455 Engine, Small (2-cycle)

Auto and Power Mechanics: beginning, advanced

General Shop

Single cylinder; 2-cycle; 2.5 HP; air cooled; vertical shaft; cast iron block (custom) or aluminum alternate:

1460 Engine, Small (4-cycle)

Auto and Power Mechanics: beginning, advanced

General Shop

Single cylinder; 4-cycle; air cooled; horizontal shaft; cast iron or aluminum block; heavy flywheel; vacu-jet carburation.

1465 Engine, Steam (model)

Auto and Power Mechanics: advanced

Model of typical mill engine with boiler; engine is $8\frac{1}{2}$ "L, 7 lbs., with stroke of $1\frac{1}{4}$ ", bore of $5\frac{8}{8}$ "; boiler has working pressure of 60 lbs., brazed copper drum with 2 circulating tubes and superheater, cast iron front and back plates, asbestos lining, water gauge, safety valve and steam valve.

1470 Engine, Turbine (small)

Auto and Power Mechanics: beginning, advanced

1475 Enlarger, Photographic

Graphic Arts: beginning, advanced

Condenser model for negative size 4" x 5" and smaller. Condenser system should be variable; filter drawer provision; lens and lens mounts for 135mm, 90mm, 50mm; negative carriers for 4" x 5", $2\frac{1}{4}$ " x $3\frac{1}{4}$ ", 120 film and 35mm film.

1480 Eraser Shields

Drafting: beginning, advanced

General Shop

Stainless steel; polished finish; with 20 various openings; free from burrs and sharp edges; size $2\frac{1}{2}$ " x $3\frac{3}{4}$ " x .005"T.

1485 Erasing, Machine, Electric

Drafting: advanced

110-115 volt; 2400-3400 RPM erasing speed; AC electric erasing machine with 84" cord, off-on switch; retractable hanger with assortment of 4 eraser refills.

1490 Exposure Frame

Graphic Arts: advanced

14" x 19" capacity; photo-flood bulb; automatic timer; 110V.

1495 Extension Cord

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Heavy duty; grounded; 25'.

Extension, Socket wrench, Flexible handle (see: Wrench, Socket, Flex handle #5375-#5380)

Extension, Socket wrench handle (see: Wrench, Socket, Handle extension #5385-#5410)

1500 Extractor, Screw (set)

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Set of 6, #1 to #6. Tapered ends with left hand twist which draws extractor into stud as it is removed; square shaft permitting the use of a wrench; one each $\frac{1}{8}$ ", 9/64", 7/32", 5/16" screw extractors; kit bag.

1505 Extruder, Large

Plastics: advanced

Minimum capacity 2"; take-off and cooling equipment; dies for sheeting and other shapes; blown film tower; 220-440V, 3-phase operation.

1510 Extruder, Medium

Plastics: beginning, advanced

Capacity 1" to $1\frac{1}{2}$ "; take-off and cooling equipment; dies for sheeting and other shapes; 220-440V, 3-phase operation.



1515 Extruder, Small

Plastics: beginning, advanced

Capacity 3/4"; take-off and cooling equipment; dies for sheeting and

other shapes; 110-220V, single-phase operation.

1520 Extrusion, Machine, Auger type

Ceramics: beginning, advanced

De-airing extruder, auger-type; easily dismantled and cleaned; special

dies are available.

1525 Eyelet Setter

Elementary

General Shop

Knurled handle; for setting eyelets in leather.

1530 Ferrotype Plate

Graphic Arts: beginning, advanced

Chrome plated; 10" x 14".

1535 Fid

General Shop

Hardwood handle; 21/4"L blade; for enlarging punch hole.

1540 Files (assorted sizes, shapes, and cuts, with handles, as specified)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary
Conoral Shor

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

	Name				
Area	Quantity	Length	or Shape	<u>Spacing</u>	
Auto and Power		10"	Half-round	Smooth	
Mechanics	6	10"	Half-round	Bastard	
	3	10"	Lathe (Long Angle, Safe		
	3	10"	Edge) Brass (Flat)		
	2	10" x ¾"	Round	Bastard	
	2	8" x 1/4"	Round	Bastard	
	2	10" x 3/8"	Square	Bastard	
	3	6"	Slim Taper (Triangular)		
	2	8″	Warding		
	3	10"	Flat	Second-Cut Bastard	

	6	10"	Half-round	Bastard
	6	10"	Round	Bastard
	3	10"	Aluminum	Dastara
	3	10	(Flat)	
Floatricity Floatronics	4	6"	Mill	Second-Cut
Electricity-Electronics	4	6″	Half-round	Second-Cut
FloresceAcm		8″	Cabinet	Second-Out
Elementary	12	0	(Half-round)	
	6	8"	Mill	Second-Cut
	6	8"	Square	Second-Cut
	6	8"	Round	Second-Cut
Conoral Shop	2	8"	Flat	Bastard
General Shop	2	0	Double-Cut	Daotara
(general metals)	2	10"	Flat	Bastard
	2	10	Double-Cut	Daotara
	2	6"	Half-round	Bastard
	2	8"	Half-round	Bastard
	2	10"	Half-round	Bastard
	2	8"	Half-round	Second-Cut
	2	10"	Half-round	Second-Cut
	2 2 2 2 2 2 2	8"	Mill	Second-Cut
	2	10"	Mill	Second-Cut
	2	8"	Rat-tail	Second-Cut
	2	O	(Round,	
			Slim)	
	2	8"	Round	Second-Cut
	2	10"	Round	Second-Cut
	2	6"	Slim, Taper	
	2	J	Single-Cut	
	2	8"	Square	Second-Cut
	_	8″	Square	Smooth
	2 2	10"	Vixen	0
		10	(Half-round)	
	2	8″	Wood (Flat)	Coarse
	2	10"	Wood (Flat)	Coarse
	2 2 2	8"	Cabinet	004.00
	_	J	(Half-round)	
	2	10"	Cabinet	
		10	(Half-round)	
	2	8"	Cabinet	Bastard
	-		Rasp	
			(Half-round)	
	2	10"	Cabinet	Bastard
	_		Rasp	
			(Half-round)	
	2	6"	Slim, Taper	
	_	•	Single-Cut	
Metalworking	4	8″	Flat	Bastard
Meranonung	•	•	Double-Cut	- :
	4	10"	Flat	
	-₩		Double-Cut	Bastard

	6	4"	Mill	Smooth
	6	6"	Mill	Smooth
	6	8′′	Mill	
	2	6"	Round	Second-Cut
	6	8″	Round	Bastard
	4	8"	Three-Square (Triangular)	Second-Cut
Plastics	6	10"	Mill	Second-Cut
	6	10"	Mill	Bastard
	6	10"	Half-round	Second-Cut
	6	10"	Half-round	Bastard
	6	8"	Round	Second-Cut
	6	8"	Round	Bastard
	6	6"	Warding	
	3	10″	Cabinet Rasp	Second-Cut
Woodworking	3	7"	Slim, Taper (Triangular) Single	
	6	10"	Half-round Rasp	
	6	10″	Round Rasp	
	12	10″	Cabinet Double-Cut (Half-round)	

1545 File, Auger bit

General Shop

Woodworking: beginning, advanced

7-inch; standard cut.

File, Auto body (set) (see: Body-Fender Tools #0395)

1550 File Card and brush

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

 $9\frac{1}{2}$ "L; brush $1\frac{1}{2}$ " x 5".

1555 File, Drafting

Drafting: advanced

Flat cap; two 5-drawer units; inside dimensions to accommodate 36" x 48" drawing sheets; flush base with partitions between drawers.

File Handles (see: Files, #1540. Sizes and number determined by quantity and size of file specified)

1560 File, Contact point (ignition)

Auto and Power Mechanics: beginning, advanced

Double-cut; 21/2" blade.

1565 File, Jeweler's (set)

Electricity-Electronics: beginning, advanced

Assorted shapes; 4" to 6".

1570 File, Needle (set)

Electricity-Electronics: beginning, advanced

Elementary

Plastics: beginning, advanced

Set of 12; 5½"L; assorted shapes; (1 each: Marking, Joint, Barrette, Slitting, Square, Three-square, Flat, Oval, Knife, Round, Half-round, Equaling).

File, Rasp (see: Files #1540)

1575 File, Swiss pattern (set)

General Shop 12 assorted.

File, Wood (see: Files #1540)

1580 Filter, Photo (set)

Graphic Arts: advanced

For variable contrast photographic paper; should include filters for equivalent paper grades of 1 through 4 by half steps.

1585 Filter Press (laboratory model)

Ceramics: advanced

Fitted for filling by air pressure from air tank. Has 10 chambers 9" square, will deliver 30 lbs. of clay per pressing.

1590 Finishing Rubber

Ceramics: beginning, advanced

Kidney shapes of pliable rubber; for smoothing and finishing pottery; for screening glaze; sizes #1, $2\frac{1}{8}$ " x $3\frac{1}{2}$ "; size #2, 2" x $4\frac{1}{4}$ ".

1592 Fire Blanket

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced

1593 Fire Extinguisher

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

5 lb. capacity UL rated 8 BC—used on all B and C fires. Acceptable for grease electrical fires, and chemical fires.

(First aid—For Class A, B, and C fires.) Carbon dioxide for electric, grease and flammable liquid fires; 5 lb., 10 lb., 15 lb., or 20 lb. capacity; 5 lb. size UL rated 4 BC; complete with wall hanger. Pressurized water—2½ gal.; UL rated 2A; air-pressurized to 100 p.s.i.; stainless steel shell; pressure gauge; squeeze grip release handle; needs no annual recharge service; 24¾"H x 7" diameter; with charge to prevent freezing; complete with hanger. Dry chemical—2¾ lb.; UL rated 6 BC; pressure gauge at top shows action readiness; one hand operation; protection against all B & C fires; Coast Guard approved; complete with bracket. Dry chemical—5 lb. capacity; UL rated 8 BC; for electric and flammable liquid fires; complete with wall hanger.

1595 Firing Racks

Ceramics: beginning, advanced

Heat resistant; 4 mesh ni-chrome; for transporting work in and out of kiln; all racks are supplied flat; 3 sizes: 3" x 3", 6" x 6", 12" x 12".

1600 First Aid Kit

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

To be purchased where state laws allow. Standard insurance kit recommended including common supplies and First Aid Manual Local and state regulations should be checked.

1605 Flaring Tool (set)

Auto and Power Mechanics: advanced

General Shop

Range 3/16" to 5%"; tapered hardened cone riding on ball bearing.

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1610 Flask, Foundry (large)

Metalworking: beginning, advanced 12" x 18"; cope 4" deep, drag 4" deep.

1615 Flask, Foundry (small)

General Shop

Metalworking: beginning, advanced

Plastics: advanced

10" x 12"; cope 3" deep, drag 3" deep.

1620 Flocking Gun

Elementary

Spray gun.

1625 Flywheel Holder

Auto and Power Mechanics: beginning, advanced

General Shop

For small gas engines.

1630 Folding Machine

Graphic Arts: advanced

Paper size $2\frac{1}{4}$ " x 4" to $9\frac{1}{2}$ " x 15"; complete with slitter, scorer and perforater.

1635 Forge, Gas

General Shop

Metalworking: advanced

With blower; swinging adjustable refractory lid; solenoid safety valve; limiting orifice.

1640 Fork, Enameling

General Shop

171/2"L.

1645 Fork, Firing

Ceramics: beginning, advanced

Sturdy heavy gauge firing fork with wooden handle. 20"L; wt. 6 oz.

1650 Forming Roll, Slip

General Shop

Metalworking: beginning, advanced Plastics: beginning, advanced

30"; capacity mild steel: 22 gauge.



1655 Fountain Pen (technical set)

Drafting: advanced

General Shop

Non-clogging; seven point sections, sizes 00, 0, 1, 2, $2\frac{1}{2}$, 3, 4; reusable ink cartridges; with holder, case, and ink filler bottle; possible to disassemble for cleaning.

1660 Frame, Printing

Drafting: advanced

For exposures by sunlight; to accommodate 17" x 22" drawings.

1665 Funnel

Woodworking: beginning, advanced

1670 Funnel, Longspout, Automatic transmission

Auto and Power Mechanics: advanced

Spring loaded button to control fluid flow; punch spout for opening and pouring oil cans; $23\frac{1}{2}$ "L; $4\frac{1}{2}$ " flexible cable hose.

1675 Furnace, Bench

General Shop

Metalworking: beginning, advanced

Gas; two-burner; refractory lined hood; pilot light; shut-off valve; front baffle.

1680 Furnace, Crucible

Ceramics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Maximum capacity #16 crucible; temperature range 1200-2300°F; with blower, spark ignition, gas pressure regulator, safety gas-check valve and limiting orifice.

1685 Furnace, Heat treating

Metalworking: beginning, advanced

Beginning: Firebox 5"H x 7 3/4"W x 13"L; temperature range 1300 to 2400° F; blower; pressure regulator; limiting gas orifice; pilot; gascheck valve.

Advanced: Firebox 7"H x 13"W x $16\frac{1}{2}$ "L; temperature range 1300° to 2350° F; blower; pressure regulator; limiting gas orifice; pilot; gas-check valve.

1690 Furniture, Wood, Fonts

General Shop

Graphic Arts: beginning, advanced

Standard labor-saving font for lock-up in cabinet; sizes should include widths 2-3-4-5-6-8-10 picas; lengths 10-15-20-25-30-40-50-60 picas.

1695 Galley (10" x 16")

Graphic Arts: advanced

Uniform gauge; rustproof; welded corners.

1700 Galley (81/4" x 13")

General Shop

Graphic Arts: advanced

Uniform gauge; rustproof; welded corners.

1705 Galvanometer

Auto and Power Mechanics: advanced

DC; 50-0-50 scale; $2\frac{1}{2}$ " or $3\frac{1}{2}$ " model; sensitivity microamperes 500-0-500 or 75-0-75; resistance 46 or 2000 ohms.

1710 Gauge, Auger bit

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

For gauging hole depth.

1715 Gauge, Belt Tension

Auto and Power Mechanics: beginning, advanced

Die cast frame; easy to read tension gauge dial 40-135 lbs.

1720 Gauge, Carburetor (set)

Auto and Power Mechanics: advanced

1725 Gauge, Center

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

For use with screw-cutting lathe tools. Spring tempered.

1730 Gauge, Cylinder pressure

Auto and Power Mechanics: beginning, advanced

General Shop

Auto and Power Mechanics: Universal compression tester adaptable for hard to reach places; gauge range 0-300 p.s.i.; quick disconnect fittings; complete with hose.

General Shop: Compression tester; gauge range 0-300 p.s.i.; 360° rotating stem.

1735 Gauge, Depth rule

ERIC Foulded by ERIC

General Shop

1740 Gauge, Draw

Elementary

Hollow handle; for cutting leather strips.

1745 Gauge, Drill, Fractions

Auto and Power Mechanics: beginning, advanced

Woodworking: beginning, advanced

Jobber's drill plate; range 1/16" to 1/2" by 64ths; case hardened steel.

1750 Gauge, Drill, Number

Auto and Power Mechanics: beginning, advanced

Range: 80—0; case hardened steel.

1755 Gauge, Drill point

Metalworking: advanced

Consisting of a six-inch hook rule graduated in 8ths, 16ths, 32nds, and 64ths, in combination with a sliding head which can be positioned on rule and locked; head beveled to 59°; head graduated in 32nds along 59° face.

1760 Gauge, Ignition (set)

Auto and Power Mechanics: beginning, advanced

General Shop

1765 Gauge, Line (12")

General Shop

Graphic Arts: beginning, advanced

Stainless steel; etched 6 and 12 point graduations on one side; agate and inches on other side.

1770 Gauge, Line (18")

Graphic Arts: beginning, advanced

Brass; 6 and 12 point one side; agate and inches on other side.

1775 Gauge, Marking

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

1780 Gauge, Marking (double bar)

Woodworking: beginning, advanced

1785 Gauge, Micrometer, Depth

Metalworking: advanced

Calibrated thousandths: 0 to 3".

1790 Gauge, Pin (sets)

General Shop

Graphic Arts: beginning, advanced

Spring tongue.

1795 Gauge, Radius and fillet

Metalworking: advanced With radii from 1/32" to 17/32" by 64ths.

1800 Gauge, Screw pitch

Auto and Power Mechanics: advanced

Drafting: advanced

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced With 22 pitches from 9 to 40.

1805 Gauge, Small hole

Metalworking: advanced
Set of four: from 1/8" to 1/2".

1810 Gauge, Spark plug

Auto and Power Mechanics: beginning, advanced General Shop 1¾" fingers; .010, .012, .013, .015, .018, .020, .022, .024, .026, .028, .030, .032, .035.

1815 Gauge, Spring tension

Auto and Power Mechanics: beginning, advanced

One to be used in conjunction with a torque wrench; will test valve and clutch springs; one brake spring tester.

1820 Gauge, Surface

Auto and Power Mechanics: advanced

Metalworking: advanced

Base 31/8" x 21/2"; hardened; two spindles, 9" and 12"; spindle

swivels to any position from vertical to horizontal; with scriber.

1825 Gauge, Telescopic

Metalworking: advanced Set: 1/2" to 6".

1830 Gauge, Thickness ("feeler")

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced General Shop Minimum 6 leaf; 1/2" x 21/2"; .0015 to .015.

1835 Gauge, Tire pressure

Auto and Power Mechanics: beginning, advanced Easy to read; pencil type; calibrated 4 to 50 lbs., in one lb. units.

1840 Gauge, Type high

Graphic Arts: beginning, advanced Standard for letterpress printing (0.918").

1845 Gauge, Vacuum and low pressure

Auto and Power Mechanics: beginning, advanced Vacuum seal up to 28"H; pressure scale up to 10 p.s.i.; plus 11 adaptors; in metal box.

1850 Gauge, Vernier height

Metalworking: advanced

Minimum 0 to 12"; offset arm to permit measurement from 0 over full range; base slotted to provide clearance for arm and to increase stability.

1855 Gauge, Wire and sheet metal (American)

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

American Standard; sizes 0 to 36; with decimal for each number

stamped on back.

1860 Gauge, Wire and sheet metal (U.S.S.)

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary
General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

U.S. Standard; sizes 0 to 36; with decimal for each number stamped on back.

1865 Gear Puller

General Shop

For small gas engines.

1870 Geometric Shapes (set)

Drafting: advanced

Variety of plane and solid geometric figures; of hardwood; in suitable

container.

1880 Gloves, Asbestos (pair)

Elementary

General Shop

Metalworking: beginning, advanced

Unlined; 14"L; medium size.

1885 Gloves, Leather (pair)

Auto and Power Mechanics: advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

Cowhide; for welders.

1890 Gloves, Thin rubber (pair)

Elementary

Thin latex.

1892 Gloves, Thick rubber (pair)

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

1895 Glue Pot

Graphic Arts: beginning, advanced

110V; automatic temperature control; 1 qt. copper insert.

1900 Goggles, Spectacles, Clear observation

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary
General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

Must meet ASA Z2.1 1959 code; side shields included.

1905 Goggles, Gas welding

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced (Must conform to ASA standards.)



1910 Goggles, Melter's

General Shop

Composition cups with indirect ventilation; adjustable chain bridge; 1-piece adjustable elastic headband; with melter blue lens, or clear lens. (Approved and exceed ASA Spec Z2.1-1959.)

1915 Graduate Cylinder (100cc)

Ceramics: beginning, advanced Plastics: beginning, advanced

1920 Graduate Cylinder (500cc)

Ceramics: beginning, advanced Plastics: beginning, advanced

1925 Graduate, Darkroom

Graphic Arts: beginning, advanced

Conical type; 16 oz. capacity; graduated in both English and metric

systems.

1930 Grease Gun

Auto and Power Mechanics: beginning, advanced

Graphic Arts: beginning, advanced Woodworking: beginning, advanced

Hand operated; loaded through filler valve or directly into barrel; corrosion resistant finish; approximately 15"L, with plunger; 1 lb. capacity; with hydraulic fitting; flex hose.

1935 Grease Gun, Chassis

Auto and Power Mechanics: advanced

(Chassis Lubricator) Including 45:1 ratio pump, 6', 1/4" 1D pressure hose; "Z" type swivel pressure regulator valve; 360° swivel adapter; air line coupler; follow plate dolly assembly; baked enamel finish; will dispense from 25, 35, and 50 lb. pails.

1940 Grease Gun, Extended interval

Auto and Power Mechanics: advanced

Grease gun with adapters for late model cars designed for extended interval servicing; with 12" hose.

1945 Grease Gun, Gear Lube

Auto and Power Mechanics. advanced

Hand operated fast acting pump delivering 3 oz. per stroke; 8 pint non-totalizing meter; 6', 1/4" 1D year lube hose and non-drip nozzle; portable caster base and shield pail cover.

1950 Grease Gun, Suction, General purpose

Auto and Power Mechanics: beginning, advanced

For servicing oil filters, gear cases, transmissions, differentials, etc.; capacity 16 oz.; impervious rubber follower; zinc plated with flexible metal extension; 24"L.

1955 Grinder, Belt

Plastics: beginning, advanced

1½''W belt; 1 horsepower, 220V, 3-phase; magnetic switch guards; work rest. (Must conform to ASA standards.)

Grinder, Bench (see: Grinder, Edge tool (bench) #1965)

1960 Grinder-Buffer, Bench, Combination

Ceramics: beginning, advanced

Elementary

1/4 HP; ball-bearing; 1725 RPM; 115V, AC; manual starter with overload protection, 8 #2 wire plus ground cord; double extension shaft for 6" grinder and rest and buffing attachments for polishing, complete with polishing kit; complete with switch, motor cord, and plug. (Must conform to ASA standards.)

1965 Grinder, Edge tool (bench)

Auto and Power Mechanics: beginning, advanced

Elementary

Plastics: beginning, advanced

Woodworking: beginning, advanced

1" x 7" model including one fine-grit and one coarse wheel; water pot; twin light safety shields; wheel guards; adjustable spark deflectors; tool rests; mounted switch with 3-prong plug; motor $\frac{1}{2}$ HP, 60 cycles, 110V, with overload protection. Three-wire cord and plug. (Must conform to ASA standards.)

1970 Grinder, Flexible shaft

Auto and Power Mechanics: advanced (Must conform to ASA standards.)

1975 Grinder, Heavy duty pedestal

Metalworking: advanced

12"; with self-contained dust collector; with tool tray and water pot, and wheels; 2 HP motor, 220V, 3-phase, 60 cycle; magnetic starter; grinder and fan motors to operate simultaneously. (Must conform to ASA standards.)

1980 Grinder, Oil tool

General Shop

Woodworking: beginning, advanced

Floor model complete with mounted switch, two $1\frac{1}{2}$ " x 6" oilstone wheels, one fine and one coarse, and a $\frac{1}{2}$ " x 8" emery dry wheel with tool rest and eye shield, grooved table with adjustable tool holder, two coolant tanks with flow controls. Motor $\frac{1}{4}$ HP, 110V, 60 cycles, single-phase, complete with conductor cord and plug. (Must conform to ASA standards.)

1985 Grinder, Pedestal

Auto and Power Mechanics: ad'anced Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

 $1'' \times 7''$ model including one fine-grit and one coarse wheel; water pot; twin light safety shields; wheel guards; adjustable spark deflectors; tool rests; mounted switch with 3-prong plug; motor $\frac{1}{2}$ HP, 60 cycles, 110V, with overload protection mounted on cast iron floor pedestal. Three wire cord and plug. (Must conform to ASA standards.)

1990 Grinder, Surface

Metalworking. advanced

Minimum table working surface $13\frac{1}{2}$ " x 6"; minimum longitudinal feed 14"; minimum cross feed 7"; work height 0" to $11\frac{1}{2}$ "; vertical feed .0001"; cross feed .001"; 7" wheel; spindle motor 1 HP, 3450 RPM; hydraulic pump motor 1/3 HP; diamond dresser; table lock and stops; collet; wheel puller and spanner wrench. (Must conform to ASA standards.)

1995 Grinder, Valve (set)

Auto and Power Mechanics: advanced

General Shop

(Valve Refacer) For wet grinding valves 9/32-9/16 diameter stems; 1/3 HP, 115V, 60 cycle motor; positive stop angle settings; valve stem and rocker arm grinding attachment; with cabinet and assortment of valve seat grinding stones, stove sleeves, pilots, etc.; portable unit. (Must conform to ASA standards.)

2000 Groover, Hand (set)

General Shop

Metalworking: beginning, advanced

Set of 3; sizes: 0, 2, 4.

2005 Growler, Armature testing

Auto and Power Mechanics: beginning, advanced

120V; 60 cycle; 2 scale meter; 2 ranges (0-5 amps; 0-25 amps); pilot lights test prods on separate transformers.

2010 Gun, Engine cleaning

Auto and Power Mechanic: beginning, advanced

(Hydro-Air Pressure Washer) Gun type with screw type adjustment; connects to air and water supply; rubber grip to protect from hot water; one siphoning attachment; extensions; one flush adapter tapered cone to fit openings 3/4" to 21/2" diameter openings.

Hammer, Auto body (set) (see: Body-Fender Tools #0395)

2015 Hammer, Ball peen (2 oz.)

Elementary

Polished face and peen.



2020 Hammer, Ball peen (4 oz.)

Auto and Power Mechanics: beginning, advanced Elementary
General Shop
Polished face and peen.

2025 Hammer, Ball peen (8 oz.)

Auto and Power Mechanics: beginning, advanced Metalworking: beginning, advanced Polished face and peen.

2030 Hammer, Ball peen (12 oz.)

Electricity-Electronics: beginning, advanced General Shop Metalworking: beginning, advanced Plastics: beginning, advanced Polished face and peen.

2035 Hammer, Ball peen (16 oz.)

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced General Shop Metalworking: beginning, advanced Polished face and peen.

2040 Hammer, Ball peen (30 oz.)

Metalworking: advanced Polished face and peen.

2045 Hammer, Ball peen (32 oz.)

Metalworking: advanced Polished face and peen.

Hammer, Blacksmith's hand (see: Hammer, Engineer's #2090, #2095)

2050 Hammer, Bookbinder's backing

Graphic Arts: beginning, advanced 1 lb.; 12 oz. head; wooden handle.

2055 Hammer, Brass head

Auto and Power Mechanics: beginning, advanced 1 lb.; 3"L; 1\\[1\]' diameter.

Hammer, Bumping (see: Body-Fender Tools #0395)

2060 Hammer, Chasing

Auto and Power Mechanics: advanced 1"; with handle attached.



2065 Hammer, Chipping

Auto and Power Mechanics: advanced

Elementary

General Shop

Metalworking: advanced

2070 Hammer, Claw (7 oz.)

Elementary

General Shop

Woodworking: beginning, advanced Curved claw; bell face; hickory handle.

2075 Hammer, Claw (10 oz.)

Elementary

Curved claw; bell face; hickory handle.

2080 Hammer, Claw (13 oz)

Elementary

General Shop

Woodworking: beginning, advanced Curved claw; bell face; hickory handle.

2085 Hammer, Claw (16 oz.)

Auto and Power Mechanics: beginning, advanced

Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Curved claw; bell face; hickory handle.

2090 Hammer, Engineer's (40 cz.)

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Cross peen; fully polished.

2095 Hammer, Engineer's (48 oz.)

Metalworking: beginning, advanced

Cross peen; fully polished.

2100 Hammer, Forming

General Shop

Assorted shapes; medium size.

2105 Hammer, Lead

Auto and Power Mechanics: beginning, advanced

3 lb.; lead head; steel shank.

2107 Hammer, Magnetic

Woodworking: beginning, advanced Standard upholsterer's.

2110 Hammer, Raising

General Shop Polished faces.

2115 Hammer, Riveting, Machinist's

General Shop

Metalworking: beginning, advanced

Fully polished.

2120 Hammer, Setting

General Shop

12 oz.

2125 Hammer, Sledge

Auto and Power Mechanics: advanced

5 lb.; medium length handle; seasoned hickory handle.

2130 Hammer, Soft face (4 oz.)

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Replaceable plastic faces.

2135 Hammer, Soft face

Auto and Power Mechanics: beginning, advanced

General Shop

With replaceable plastic faces.

2140 Helmet, Welding arc (hand type)

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: advanced

Plastics: advanced

With #10 lens and cover. (Must conform to ASA standards.)

2145 Helmet, Welding arc (head type)

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Molded fiberglass reinforced helmet; impervious to moisture and warping; removable nylon ratchet headgear; rounted underchin; lift-type front; shade #10. (Approved and exceed ASA Spec Z2.1-1050.)

1959.)

2150 Hoist, Double post

Auto and Power Mechanics: beginning, advanced Pistons in fixed position with minimum diameter of 7½"; pistons operated independently or in unison; fully hydraulic air-operated with low oil control for safety; flush floor model; height of rise 70"; capacity 8000 lbs. at 120 lbs. per sq. in. air pressure; controls mountable clear of hoist area; capable of handling passenger cars, foreign and domestic, as well as some small trucks; to be installed by supplier; all underground piping to be appropriately wrapped.

2155 Hoist, Single post

Auto and Power Mechanics: beginning, advanced Piston diameter 10½"; semi-hydraulic air-operated with low oil control for safety; height of rise 66"; controls mountable clear of hoist area; capable of handling passenger cars foreign and domestic as well as some small trucks; to be installed by supplier; all underground piping to be appropriatey wrapped.

2160 Hone, Brake cylinder (set)

Auto and Power Mechanics: beginning, advanced Stones on free swinging self centering shoes; tension controlling screw; for $\frac{1}{2}$ " to 2" diameter cylinders; 2 medium grit stones; 2 fine grit stones.

2165 Hone, Cylinder (to 7")

Auto and Power Mechanics: advanced (Glaze Breaker) range 2"-51/4" diameter; with 2—3" medium grit stones and felt wiper pad.

2170 Hone, Pin

Auto and Power Mechanics: advanced

2175 Hose, Air

Auto and Power Mechanics: beginning, advanced Woodworking: beginning, advanced 25' x 14"; heavy duty; 2-braid carcass; flexible.

2180 Hose, Exhaust, Garage

Auto and Power Mechanics: beginning, advanced 100' only; 2½" diameter; 100% neoprene rubber; rugged spiral construction; withstanding temperatures -40 to +325 degrees Fahrenheit.

2185 Hose, Water

Auto and Power Mechanics: beginning, advanced 50'; garden type; heavy duty; 2-ply; with end fittings.

2190 Hot Plate, Electric

Elementary
Graphic Arts: beginning, advanced

Woodworking: advanced

100 V with thermostatic control switch.

2195 Hydraulic Instruction Unit

Auto and Power Mechanics: advanced

Bench 60"L x 23"D x 33"H, heavy steel top and frame with drain to rear, integral hydraulic reservoir, leveling screws, fitted interior, masterkeyed doors; instrument panel with 30 lb., 160 lb., and 400 lb. x $3\frac{1}{2}$ " gauges, 30 second 1 revolution timer clock, toggle switch with pilot and duplex; pressure source with positive displacement pump, direct drive from $\frac{1}{4}$ HP TEFC motor, filter, external relief valve, precision pressure control valve and 4 valve outlet manifold; component mounting; permanent plumbing of metal tubing and pipe; plumbing to be varied by students $\frac{1}{4}$ " and $\frac{3}{8}$ " plastic tubing with finger tightening fittings, color coded; power requirements: 120V 5A, with 3-wire cord and 6-rounded plug; $2-1\frac{1}{8}$ " x 6" double acting cylinders; $1-\frac{1}{2}$ " x 3" double acting cylinder; weights, weight arm, and arm support; pressure switch; accumulator; 4-way manual valve; 2—unidirectional flow control valves; 3 wrenches; all necessary fittings, tubing, bolts, oil, etc.

2200 Hydrometer

Auto and Power Mechanics: beginning, advanced

(Anti-freeze Tester) Large colour coded charts, cooling capacity of all car models to date; self-calculating variety; rugged construction thermometer; able to test solutions up to 180° approximate; for all ethylene glycol and methanol types.

Battery Testers—(see Tester, Battery cell—4815)

2205 Imposing Stone Table

General Shop

Graphic Arts: beginning, advanced

General Shop: Top 31" x 39"; with cabinets below for 1 font of reglets, 1 font of furniture; storage unit for 8" x 12" and 10" x 15" chases; storage unit for 8 3/4" x 13" galleys; with drawer.

Graphic Arts: 27" x 39" (beginning); 31" x 39" (advanced); cast iron surface; furniture font; reglet font galleys.

2210 Indicator, Dial test

Auto and Power Mechanics: advanced

Metalworking: advanced

Auto and Power Mechanics: For cylinders; dial mounted on block that moves at right angles to the sled; sled to maintain in alignment with cylinder walls; sled is hardened and ground; adjustable handle; dial with locking mechanism, and non-breakable crystal; adjustable zero location by turning dial face; range $2\frac{1}{2}$ " to 6", in graduations of .001"; dial reading 0-100, one revolution .100°.

Metalworking: Ratchet joint contact point; reversible action; range .030, adjustable dial.

Iron, Soldering (see: Soldering copper, Electric #4295-#4325)

2215 Jack Auto bumper (double-saddle type)

Auto and Power Mechanics: beginning, advanced

Hydraulic; 24" travel; built-in lowering speed control valve; open; "V" shaped base; portable unit on wheels; capacity 4000 lbs.; lifting range 5%"-37"; horizontal arm (twin lift) spread 12"-45"; with extensions; universal bumper saddles. (Must conform to ASA standards.)

2220 Jack, Auto, Hydraulic floor type (11/2 ton)

Auto and Power Mechanics: beginning, advanced

24" lift; 90° handle stroke; with safety lock, direct-action release control; built-in lowering speed control valve; swivel lifting cap. (Must conform to ASA standards.)

2225 Jack, Auto, Hydraulic (standard type) (1½ ton)

Auto and Power Mechanics: beginning, advanced

Woodworking: advanced

Wide base; self locking extension screw with serrated saddle; built-in lowering speed control valve; lifts 7" to $14\frac{1}{4}$ ". (Must conform to ASA standards.)

2230 Jack, Auto, Hydraulic (standard type) (2 ton)

Auto and Power Mechanics: advanced

Strong handle socket; guard lugs to protect piston; self locking extension screw with serrated saddle; $23\frac{1}{2}$ " handle (two piece); wide base; built-in lowering speed control valve; lifts $8\frac{1}{2}$ " to 18". (Must conform to ASA standards.)

2240 Jars, Grinding

Ceramics: beginning, advanced

Of special wear-resistant porcelain containing Byrundum; wide mouth for easy loading; integral lid and lock for fast opening and closing; eight sizes: $\frac{1}{2}$ pt. to $\frac{61}{2}$ gals.

2245 Jig, Doweling

General Shop

Woodworking: beginning, advanced

With guides: 3/16, $\frac{1}{4}$, 5/16, $\frac{3}{8}$, 7/16, $\frac{1}{2}$ ".

2250 Jigger, Electric (industrial model)

Ceramics: beginning, advanced

Variable speed wheel and jigger; 3/4 HP electric motor; speeds from 0 to 525 RPM; weight 475 lbs.

2255 Jogger, Paper

Graphic Arts: advanced Vibrating; 14" x 20"; 110V.

2260 Jointer (6")

Elementary General Shop

126

Plastics: beginning, advanced

Woodworking: beginning, advanced

Long bed; floor model with totally enclosed metal stand to include right and left tilting fence, knife safety guards for both front and rear, individual table adjustment for infeed and outfeed tables and rabbeting capacity of $\frac{1}{2}$ ". Motor: $\frac{1}{2}$ HP, 60 cycles, 3-phase, 220V, with magnetic switch and overload protection.

2265 Jointer (8")

Woodworking: advanced

Long bed; floor model with totally enclosed metal stand to include right and left titling fence, knife safety guards for both front and rear, individual table adjustment for infeed and outfeed tables, and rabbeting capacity of $\frac{1}{2}$ ". Motor: $\frac{1}{2}$ HP, 60 cycles, 3-phase, 220V, with magnetic switch and overload protection.

2275 Jolt Squeezer, Foundry

Metalworking: advanced

Table size 17" x 20"; diameter 10"; capacity 6,000 lbs.; maximum jolt load 400 lbs.; variable distance from table to squeeze plate from 11" minimum to 17" maximum; to operate on 80 lbs. air line pressure.

2280 Kiln Cut-off, Automatic (heat control device)

Ceramics: beginning, advanced

Automatic shut-off for both gas and electric kilns; for temperatures to 2500°F; able to set meter-relay pointer at a pre-determined temperature; uses pyrometric cones to trigger switch action.

2285 Kiln, Electric

Ceramics: beginning, advanced

Elementary

General Shop

Firing chamber $6\frac{1}{2}$ " x 7" x 4"; 172 cu. in.; temp. 3000°F; firing time to 1500°F in 35 minutes; 110V AC; 14.5 Amp; 2 firing speeds; wi. 50 lbs.

2290 Kiln, Enameling

Ceramics: beginning, advanced

Elementary

General Shop

Designed for enameling. 110V AC; case-welded steel construction; heating elements in sides of kiln; interior $4'' \times 8^{1/2}'' \times 8''$; gravity-type door, self sealing, with peephole; wt. 31 lbs; 10 Amps.

2295 Kiln, Front loading

Ceramics: beginning, advanced

General Shop

For temperatures to 2000°F, 18" x 18" x 19" chamber. 220-230V AC.



2300 Kiln, Gas

Ceramics: beginning, advanced

Front loading, forced-draft; for temperature to 2500°F; automatic cutoff controls; 20 cu. ft.; chamber 32" x 24" x 46".

2305 Kiln, Starter

Ceramics: beginning, advanced

For starting or stopping kiln automatically at clock-timed intervals.

2310 Kiln, Top loading

Ceramics: beginning, advanced

Electric; for temperatures to $2300^{\circ}F$, (cone 8) $17'' \times 17'' \times 18''$ chamber.

Knife, Bevel point (see: Knife, Skiving #2365)

2315 Knife, Carving (set)

Drafting: advanced

Elementary

To include three blade holders; #1, #2, #6 knives; assorted extra blades; with box fitted for all parts.

2320 Knife, Electrician's

Electricity-Electronics: beginning, advanced With screwdriver blade and insulation scraper.

2325 Knife, Fettling

Ceramics: beginning, advanced

For cleaning up greenware and for hand building work; thin and flexible.

2330 Knife, Head

Elementary

For leather work; $4\frac{1}{2}$ " from point to point; $2\frac{3}{8}$ " at center.

2335 Knife, Ink

General Shop

Graphic Arts: beginning, advanced

Square end; 8".

2340 Knife, Leather

General Shop

Square end.

2345 Knife, Make ready and stripping

Graphic Arts: beginning, advanced

#12 "Exacto".

2350 Knife, Mold maker's

Ceramics: beginning, advanced

For mold work and general carving; blue finish; round white handle; blade length $4\frac{3}{4}$ "

2355 Knife, Padding

Graphic Arts: beginning, advanced

Round end.

2360 Knife, Putty

Elementary

General Shop

Woodworking: beginning, advanced

Approximately 1"W; flexible tool steel blade.

2365 Knife, Skiving

Elementary

General Shop

Bevel point.

2370 Knife, Sloyd

Elementary

General Shop

Woodworking: beginning, advanced

Blade approximately 25%"L.

2375 Knife, Stencil

General Shop

2380 Knife, Swivel cutter

Elementary

General Shop

Chrome plated; hardened tool steel.

2385 Knurling Tool, Lathe (coarse)

Metalworking: advanced

Self centering; coarse diamond.

2390 Knurling Tool, Lathe (fine)

Metalworking: advanced

Self centering; fine diamond.

2395 Knurling Tool, Lathe (medium)

Metalworking: advanced

Self centering; medium diamond.

2400 Ladle, Bottom pour

General Shop

5" diameter of bowl.

2405 Lamps, Drying (set)

Auto and Power Mechanics: advanced

2410 Lathe, Armature

ERIC FOUNDAMENT FRICE

Auto and Power Mechanics: advanced

2415 Lathe, Metalworking (10")

Auto and Power Mechanics: advanced

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Minimum distance between centers 24"; cabinet model; underneath drive; quick change gear box; 54 thread and spindle changes L.H. or R.H. from 4 to 224; speeds from 50 to 1500 RPM; motor: ¾ HP, 208-220V, 3-phase, drum switch and magnetic starter. Equipped with drive plate, spindle adapter, centers for head-stock and tailstock, tool post, ring and rocker, thread chasing dial and tool post wrench, 3-jawed chuck, 4-jawed chuck.

2420 Lathe, Metalworking (14")

Metalworking: advanced

Minimum distance between centers 36"; capacity through spindle 1-1/16"; cam lock spindle nose; center Morse Taper #3; spindle speeds: direct drive 215 to 875 RPM, backgeared 30 to 130 RPM; quick change gear box 4 to 224 threads per inch; tailstock spindle #3 Morse Taper; thread indicator dial; with 3-jawed and 4-jawed chuck; taper attachment, face plate; tool post assembly; centers and spindle sleeve; motor: 2 HP, 220V, 3-phase, pushbutton line starter control-forward, reverse, stop and magnetic reversing linestarter.

2430 Lathe, Spinning (12")

Metalwoking: advanced

Plastics: beginning, advanced

Variable speed drive; speeds 650 to 3450 RPM; 1 HP motor; 220V; 3-phase; magnetic starter; metal spinning face plate; spinning tool rest with fulcrum pins; spinning center; spur center and cup center; set of metal spinning tools; set of wood turning chisels.

2435 Lathe, Wood turning

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

12" gap bed floor model with enclosed metal cabinet with $16\frac{1}{2}$ " capacity over gap and at least 38" between centers. Motor $\frac{3}{4}$ HP, 60 cycles, 220V, 3-phase with mounted switch and overload protection. To include cup center, spur center, 3 face plates, 1—6" tool rest, 1—12" tool rest, 1 tool support base, 1 knockout bar.

2440 Leads (2 point) (25 lb. pkg.)

General Shop

2445 Leather Modeling Tool (set)

General Shop

2450 Leggings, Molder's (pair)

General Shop

Metalworking: beginning, advanced





2455 Lettering guide line instrument

Drafting: beginning, advanced

Transparent plastic disk in plastic frame; produces uniformly spaced lines; holes in disk produce letters in proportions of 3/5, 2/3, or 1/1; will produce 65° and 75° direction lines; graduated in 32nds of an inch and may also be graduated in millimeters.

2460 Lettering Set

Drafting: advanced

General Shop

Professional quality; 11 tempiates with standard capital and lower case letters on each; size .080CL, .100CL, .350CL, .425CL, .500CL; in polished mahogany case; 11 pens sizes 000, 00, 0, 1, 2, 3, 4, 5, 6, 7, 8; adjustable scriber; scriber stand; lead clutch; socket holder; and pen holder.

2465 Level

General Shop

Woodworking: beginning, advanced

Two double plumbs, one double level. 24" long.

2470 Lift, Engine safety

Auto and Power Mechanics: advanced

(Engine Lifting Cable) 30"L including hook and adapter; 2 ton capacity: safety saddle permitting tilt adjustment.

2475 Lift, Pallet

Ceramics: beginning, advanced

Hydraulic: hand truck:

2480 Light, Darkroom

Graphic Arts: beginning, advanced Red; amber, or as appropriate to film.

2485 Light, Flood

Graphic Arts: beginning, advanced

10".

2490 Light, Extension

Electricity-Electronics: advanced Miniature extension probing light.

2495 Locks, Magnetic galley

Graphic Arts: beginning, advanced

2500 Loom, Table

ERIC

Elementary

4 harness; 8" weaving space; pressed steel.

2505 Machine, Drafting (18°)

Drafting: advanced

General Shop

18" drafting machine with 15° automatic indexing, full circle base line setting, fully graduated protractor, disc brake, and self-locking scales, of one each 9" and 18".

2510 Machine, Drafting (24")

Drafting: advanced

Track-type; with standard protractor head; automatic 15° indexing; protractor divided to 1 degree with vernier scale for sub-division of degrees; full 360 degree baseline setting; positive braking system; locks for both horizontal and vertical movement or either; may be specified for appropriate board size, usually 29" x 40" or larger; with one 12" and one 18" scale.

2515 Machine, Reproduction (dry type)

Drafting: beginning, advanced

Dry diazo white printer; table model; synchronized printing and moist developing up to 14 foot per minute; minimum lamp rating 35 watts per inch; width capacity 42"; current 115V; 60 cycle AC; a system to exhaust ammonia fumes from the room is desirable with this type of machine.

2520 Machine, Reproduction (moist type)

Drafting: beginning, advanced

General Shop

Moist diazo white printer; table model; synchronized printing and moist developing up to 14 foot per minute; minimum lamp rating 35 watts per inch; width capacity 42"; current 115V; 60 cycle AC.

2525 Magnifiers

Graphic Arts: beginning, advanced

Etcher's type; 10X; for negative examination.

2530 Magnet, Bar

Electricity-Electronics: beginning, advanced

Cobalt steel ALNICO type; minimum size 1/4" x 1/2" x 3".

2535 Mallet, Hardwood

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

2540 Mallet, Rawhide

Auto and Power Mechanics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced

10 oz.

2545 Mallet, Rubber

Auto and Power Mechanics: beginning, advanced

Metalworking: beginning, advanced

Length of head approximately $3\frac{1}{2}$ "; rubber face approximately 2"; hickory handle.

2550 Mandrel, Expansion (set)

Metalworking: advanced

Range $\frac{3}{8}$ " to $2\frac{1}{2}$ "; includes sizes $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", $\frac{1}{1}$ ".

2555 Mandrel Set

Metalworking: advanced

Includes sizes $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", $\frac{1}{8}$ ".

2560 Marker, Felt-tip, Color (set)

Elementary

Graphic Arts: beginning, advanced

2565 Marking Tool, Electric

Drafting: beginning, advanced

Tantalum carbide point.

2570 Mason's Tools, Cement (set)

Ceramics: beginning, advanced

2575 Meter, Ammeter (AC)

Electricity; beginning, advanced.

General Shop

Range 0.25 amps.

2580 Meter, Ammeter (DC)

General Shop

Range 0.10 amps.

2585 Meter, Battery tester

General Shop

Electricity-Electronics: beginning, advanced

Switch positions 1.5, 4.5, 6.0 7.5, 9.0, 22.5, 45, 67.5, 75, 90 volts.

2590 Meter, Galvanometer

Electricity-Electronics: advanced

Woodworking: advanced

500-0-500 micro amperes.

2595 Meter, Grip dip

Electricity-Electronics: advanced

400 KC to 250 MC.

2600 Meter, Light

ERIC .

Graphic Arts: beginning, advanced

For measurement of reflected and/or incident light; for film speeds to 12,000 ASA; case and neck strap included; (if of Cd.S. type, should include mercury battery power supply).

2605 Meter, Moisture content (electric)

Woodworking: advanced

2610 Meter, Volt-ohm (multi-range)

Electricity-Electronics: advanced

General Shop

Woodworking: advanced

Sensitivity @ 20,000 ohms/volts D.C. Minimum voltage ranges: 0-1500V. Resistance ranges covering 0-1000 megohms; overload protected.

2615 Meter, VTVM

Electricity-Electronics: advanced

General Shop

Broad ranges and overload protection.

2620 Micrometer, Inside (set)

Auto and Power Mechanics: beginning, advanced

Metalworking: beginning, advanced

Range 2"·12" graduations in thousandths of an inch; 10 measuring rods and one $\frac{1}{2}$ " gauge encase solid rods; hardened and ground anvils on rods; adjustable for length; hardened and ground screw.

2625 Micrometer, Outside (1")

Auto and Power Mechanics: beginning, advanced

Drafting: advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Graduated in .001"; hardened and ground threads; with spindle lock

and ratchet adjustment.

2630 Micrometer, Outside (2")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Graduated in .001"; hardened and ground threads; with spindle lock and ratchet adjustment.

2635 Micrometer, Outside (3")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Graduated in .001"; hardened and ground threads; with spindle lock and ratchet adjustment.

2640 Micrometer, Outside (4")

Auto and Power Mechanics: advanced

Graduated in .001"; hardened and ground threads; satin chrome finish; with spindle lock and ratchet adjustment.

2645 Micrometer, Outside (5")

Auto and Power Mechanics: advanced

Graduated in .001"; hardened and ground threads; satin chrome finish.

2650 Micrometer, Outside (screw thread)

Metalworking: advanced

Pitch diameters 0 to 1" graduated in .001"; 8 to 13 threads per inch.

2655 Micrometer, Outside (screw thread)

Metalworking: advanced

Pitch diameters 0 to 1" graduated in .001"; 14 to 30 threads per inch.

2660 Microscope

Plastics: advanced

Woodworking: beginning, advanced

10x Hygenian eyepiece with pointer, triple revolving nosepieces; 3 standard objectives: 4x, 10x, 43x; plain stage with side clips; fixed in stage condenser; iris diaphragm; in base illuminator.

2665 Milliammeter, Volt-ohm

Auto and Power Mechanics: advanced

Factory-wired and calibrated; fuse-protected ohms-divider network; easy-to-read scales; polarity reversal switch; full-wave bridge rectifier; standard ohm ranges; with probe and cable.

2670 Milling Machine, Horizontal

Metalworking: advanced

No. 2 Knee and Column, plain style. Specifications may vary according to need—these features, however, should be considered: fast, easy feed selection, directional feed controls, power rapid traverse, built-in backlash eliminator, spindle speeds selections, convenient electrical controls, ruggedness of construction, trip dogs and positive safety stops, easy chip removal and sump cleaning, anti-friction bearings, positive lubrication, safety features and simplicity of maintenance; includes Morse taper adaptor.

2675 Milling Machine, Universal

Metalworking: advanced

Spindle C/L to table top with cutterhead horizontal 0 to 23", spindle nose to table top with cutterhead vertical 0 to 17" with adjustable cutterhead that can be positioned through a full 90° for vertical, angular, or horizontal milling. Other features to be considered: gib design, spindle drive motor, feed motor, coolant system, table work-

ing surface, saddle, ram, overarm, feed ranges, spindle speeds, controls, and lubrication.

2680 Milling Machine, Vertical

General Shop

Metalworking: advanced

Approximate range 9" x 40" table working surface, longitudinal table travel 26", cross travel 10", vertical travel of knee 18", vertical travel of spindle 5", turret to rotate 360° on column, head to rotate 360° on ram. Other features to be considered: gibs, accuracy and movement of all bearing surfaces, spindle bearings, spindle tapers, spindle speeds, 4-way head, balanced pulleys, power feed table, motors and electrical controls.

2685 Mitering Machine

Graphic Arts: beginning, advanced

Miters to 45°; square ends of rules; gauge sets to 63 Picas by Picas and nonpareils.

2690 Mitre Box

Elementary

General Shop

Woodworking: beginning, advanced

26° x 4" back saw; 81/4" right angle capacity.

2695 Mixer, Slow speed (portable)

Ceramics: beginning, advanced

Motor or air driven. 1/4 HP, dip proof, ball bearing motor attached to gear box. Stainless steel shaft is adjustable. To 8" diameter stainless propellers are furnished. 400 RPM.

2700 Mixing Bowls (set)

Plastics: beginning, advanced

Set of 3 sizes; stainless steel kitchen type.

2705 Modeling Tool (set)

Ceramics: beginning, advanced

Elementary
General Shop

Boxwood; fine wire pillard; kit of 10 modeling tools in plastic box.

2710 Mold, Ingot

General Shop

Metalworking: beginning, advanced

2715 Molder, Blow

Plastics: advanced

 $6" \times 12"$ platen; cylinder approximately $2\frac{1}{2}"$ bore, 2" stroke; pneumatic operation; electronic cycling mechanism; provisions for connection to power and air.



2720 Molder, Rotational

Plastics: advanced

Variable speed drive 2 to 15 RPM, ¼ HP, 110V motor with reversing switch; mold area approximately 15" diameter; oven 220V, 3-phase, temperature controlled 150°-600°F with circulating fan.

2725 Molding Press, Compression (large)

Plastics: beginning, advanced

Capacity 75 ton or more; two or more 220V, 3-phase electricaheated platens controlled from 200°-600°F; manual or motor operated hydraulic; platen size minimum 18" x 18"; piston stroke 5" minimum daylight opening; at least 8" with 4" removable adaptor.

2730 Molding Press, Compression (medium)

Plastics: beginning, advanced

Capacity 50 tons two 220V, 3-phase electrically heated platens controlled from 200°-600°F; manually operated two-stage hydraulic; platen size 12" x 12" minimum; piston stroke 5" minimum daylight opening—at least 6" with 4" removable adaptor.

2735 Molding Press, Compression (small)

Plastics: beginning

Capacity 20-25 tons; two 220V, 3-phase electrically heated platens controlled from 200°-600°F; manually operated hydraulic; platen size 6" x 6" minimum; piston stroke 4" minimum day!ig: topening—at least 6" with 3" removable adaptor.

2740 Molding Press, Injection (large)

Plastics: advanced

Capacity 3 oz. of styrene with appropriately rated mold size and clamping pressure; heaters 220V, 3-phase; motor operated hydraulic system; automatic and semi-automatic cycling.

2745 Molding Press, Injection (medium)

Plastics: beginning, advanced

Capacity $1\frac{1}{2}$ to 2 oz. of styrene with appropriately rated mold size and clamping pressure; heaters 220V, 3-phase; motor operated pneumatic or hydraulic systems; automatic or semi-automatic cycling.

2750 Molding Press, Injection (small)

General Shop

Plastics: beginning

Capacity ¼ to ¾ oz. of styrene with appropriately rated mold size and clamping pressure; heaters 110V, single-phase; hand operated mechanical or pneumatic.

2755 Molding Press, Transfer (large)

Plastics: advanced

Capacity 75 tons or more on clamp; two electrically heated 220V, 3-phase heated platens; motor operated hydraulic; platen size 18" x 18" minimum; piston stroke approximately 5"; transfer force approximately 20 tons minimum; transfer stroke approximately 3" minimum.





2760 Molding Press, Transfer (medium)

Plastics: advanced

Capacity approximately 50 tons on clamp; two electrically heated 220V, 3-phase platens; hand or motor operated hydraulic; platen size 12" x 12" minimum; piston stroke approximately 5"; transfer force approximately 15 tons; transfer stroke approximately 3".

2765 Molds, Ceramics (assorted)

Ceramics: beginning, advanced

General Shop For slip casting.

2770 Mortar and Pestle

Ceramics: beginning, advanced

Acid resistant, thick chemical porcelain; possesses a surface texture which facilitates grinding.

2775 Mortar Box

Ceramics: beginning, advanced

2780 Mortiser, Hollow chisel

Woodworking: advanced

Floor model with $\frac{1}{2}$ " mortise capacity and to handle stock up to 20"L. Complete with compound table and lateral adjustments, hold down attachment and foot lever control. Machine to include one each of the following drills and hollow chisel bits: $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", and $\frac{1}{2}$ " and $\frac{1}{4}$ " and $\frac{5}{16}$ " bit bushings. Motor: 1 HP, 60 cycles, 220V, 3-phase with mounted switch and overload protection.

2785 Motor Stand, Universal

Auto and Power Mechanics: advanced

2000 lb. capacity; 360° rotation; stop in any position.

2790 Muller-Mixer

Ceramics: beginning, advanced

Blends dry ceramic bodies quickly, uniformly, and completely, ready for preparation for throwing, dry pressing. Cast aluminum drum—diameter $13\frac{1}{4}$ ", depth $6\frac{3}{4}$ "; hinge door at bottom. Two cast aluminum muller wheels $6\frac{1}{4}$ " diameter x $1\frac{1}{2}$ ". Chromium plated scraper blades. 1/3 HP, 115V AC-DC. 3-wire cord and plug.

2795 Multiscope

Auto and Power Mechanics: advanced

2800 Nail Set (1/16" tip)

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

Square head.



2805 Nail Set (3/32" tip)

Elementary

Woodworking: beginning, advanced

Square head.

2810 Needle, Binding

Graphic Arts: beginning, advanced

2815 Needle, Knitting (pair)

Elementary

10" standard length.

2820 Needle, Lacing

General Shop

2825 Needle, Raffia (card)

Elementary

Card of 2 needles: 1 straight, 1 curved.

2830 Nibbler, Hand operated

Electricity-Electronics: beginning, advanced

Capacity: 18 ga. steel.

2835 Nipper, End-cutting

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Woodworking: beginning, advanced

6"; compound lever action.

2840 Nipper, Tile

General Shop

Carbide cutting edges.

2845 Nozzle, Blow gun (air line)

Auto and Power Mechanics: beginning, advanced

Woodworking: beginning, advanced

Forged brass body; air blast controlled by pressure button.

2850 Numbering Machine, Cleaner box

Graphic Arts: beginning, advanced

Removable celaning section.

2855 Numbering Machine, Hand

Graphic Arts: beginning, advanced

6 wheel machine; five movements: duplicate, triplicate, quadrupli-

cate, consecutive, repeat; drop cipher.

2860 Numbering Machine, Press

Graphic Arts: beginning, advanced

General Shop

ERIC

6 wheel; forward and backward movement; lowplunger.

Nutdriver (see: Wrench, Nutdriver #5330).

2865 Oiler, Bench

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced
Metalworking: beginning, advanced
Plastics: beginning, advanced
Woodworking: beginning, advanced

1/3 pint or $\frac{1}{2}$ pint size; 5" straight spout.

2870 Oiler, Pump

Auto and Power Mechanics: beginning, advanced

Graphic Arts: beginning, advanced Woodworking: beginning, advanced

5 oz. capacity; trigger operated spout approximately 5"L; seamless construction.

2875 Oiler, Straight

Auto and Power Mechanics: beginning, advanced 1/2 pint.

2880 Oilstone, Arkansas

Drafting: beginning, advanced

Wedge-shaped; tapering from 1/4" to very thin edge; fine grain for sharpening ruling pen nibs.

2885 Oilstone, Carving tool slips (set)

General Shop

Woodworking: beginning, advanced

India stones.

2890 Oilstone, Combination, India

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced

Elementary
General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced Coarse and fine grits; 8" x 1" x 2".

2895 Oilstone, Combination, Silicon carbide

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced



General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Coarse, fine; 8" x 1" x 2".

2900 Oilstone, Gouge slip

General Shop

Woodworking: beginning, advanced

India stone.

Oilstone, Slip 2905

General Shop

Woodworking: beginning, advanced

îndia stone.

2910 Oscilloscope

Electricity-Electronics: beginning, advanced

General Shop

Z axis input; positive lock internal synchronization; DC or MC wide band scope with 5" screen.

2915 Oven

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: advanced

Laboratory type for heating plastics; 0-550°; inside dimensions approximately 12"W x 10"H x 10"D; with adjustable shelf; complete with switch and automatic thermo control. 220V, 3-phase, or 110V, singlephase; safety vented.

2920 Oven, Core

Metalworking: advanced

Laboratory type for heating plastics; 0-550°; inside dimensions approximately 12"W x 10"H x 10"D; with adjustable shelf; complete with switch and automatic thermo control. 220V, 3-phase; or 110V, single-phase.

2925 Packer, Wheel bearing

Auto and Power Mechanics: beginning, advanced

Pad Counter 2930

Graphic Arts: beginning, advanced

Stabbing type; 3" adjustable for measuring equal size pads.

2932 Pan, Dust

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced



Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

12" steel.

2935 Pantograph, Drafting

Drafting: advanced

21" hardwood bars scaled for reducing or enlarging subjects up to 25 ratios. Metal tracer and lead holder point.

2940 Pantogaph, Metalworking

Plastics: advanced

2 or 3 dimensional; enlargement up to 1:16. 220V, single-phase, appropriate cutters.

2945 Parallels, Adjustable (set)

Metalworking: advanced

Set of 6 with capacity range $\frac{3}{8}$ " to $2\frac{1}{4}$ ".

2950 Pen Holder

Drafting: advanced

Wood or metal with cork or rubber grip; protruding metal nib; 6" to 7" in length.

2955 Pen Set

Drafting: advanced

General Shop

One each: Crow quill pen, flexible quill pen, hawk quill pen, mapping pen, imperial or medium pen, drawing pen (round pointed), artist pen (medium size), Crow quill pen holder, regular pen holder.

2960 Pen, Speedball (set)

Drafting: advanced

General Shop

Includes style A, sizes A-O to A-5; style B, sizes B-O to B-6; style C, sizes C-O to C-6; style D, sizes D-OO to D-5.

2965 Pencil Pointer, Lead pencil

Drafting: beginning, advanced

General Shop

Pencil file; hardened tool steel with wood handle; 6"L.

2970 Pencil Pointer, Mechanical

Drafting: beginning, advanced

With abrasive cup; all metal unit; non-skid base.

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2975 Pencil Sharpener, Draftsman's

Drafting: beginning, advanced

With removal cutters; adjustable setting head; self-feeding.

2980 Pencil Sharpener, Standard

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced Adjustable setting head; self-feeding.

2985 Pencil, Woodburning

Elementary General Shop

Replaceable element; interchangeable tips.

2990 Perforator

Graphic Arts: advanced

Bench model; 19" capacity; with interchangeable heads.

2995 Pipet Control, Microsyrnge

Plastics: advanced

3000 Plane, Block

Elementary General Shop

Woodworking: beginning, advanced

1 1 cutter.

3005 Plane Iron, Double

Woodworking: beginning, advanced

3010 Plane, Jack

General Shop

Plastics: beginning, advanced Woodworking: beginning, advanced 14"L; cutter 2" wide.

3015 Plane, Jointer

General Shop

Woodworking: beginning, advanced

22"L; cutter 2%" wide.

3020 Plane, Junior jack

General Shop

3025 Plane, Portable, Electric

Woodworking: advanced

16" complete with spiral cutter, cutter sharpener, grinding wheel spacers, electric cord with 3-prong electic plug, and metal carrying case. (Note: Plane attachment can be purchased for use with portable electric router shaper).

3030 Plane, Rabbet

Woodworking: beginning, advanced 4"L; 1" cutter.

3035 Plane, Router

Woodworking: beginning, advanced With 3 cutters (1/4", 1/2", and V).

3040 Plane, Smoothing

Elementary

General Shop

Woodworking: beginning, advanced Length: 9"; blade width: 134".

3045 Planer, Type

General Shop

Graphic Arts: beginning, advanced

 $1\frac{3}{4}$ " x 3" x $1\frac{1}{2}$ " and $3\frac{1}{4}$ " x 8" x $2\frac{1}{2}$ " (suggest two sizes needed); maple wood; varnished; leather top; shaped for ease in handling.

3050 Plaster Working Tool

Ceramics: beginning, advanced

Made of hand forged, hand ground, highly tempered tool steel. Average length 7". Six tools available in plain, chisel, and toothed edges.

3055 Plate, Angle

Metalworking: advanced 4" x 5" x 6".

3060 Plate, Surface

Metalworking: advanced 10" x 15"; hand scraped.

3062 Plate-maker

Graphic Arts: beginning, advanced

Approximately 24" capacity with "flip-top"; vacuum contact plate; xenon light; 110/220 with ground wire.

3065 Pliers, Battery

Auto and Power Mechanics: beginning, advanced

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Heavy duty gripping; 6-7/16"L; 2 postion slip-joint; nickel chrome plated; wire cutter; serrated throat.

3070 Pliers, Bent nose

General Shop 6".

U

3075 Pliers, Brake

Auto and Power Mechanics: beginning, advanced All purpose; Bendix socket on handle.

3080 Pliers, Chain

Auto and Power Mechanics: beginning, advanced

3085 Pliers, Combination (6")

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

Forged steel, machined, hardened, and oil tempered.

3090 Pliers, Combination (8")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced Plastics: beginning, advanced

Forged steel, machined, hardened, and oil tempered.

3095 Pliers, Duckbill

Electricity-Electronics: beginning, advanced 8".

3100 Pliers, Diagonal-cutting

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced

Elementary General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

6"; drop forged.

3105 Pliers, Electrician's

Elementary General Shop

8"; side-cutting; forged steel, with plastic insulated handles.

3110 Pliers, End-cutting

General Shop

Plastics: beginning, advanced

Forged steel, hardened, oil tempered.

3115 Pliers, Hose clamp, Radiator and gas line

Auto and Power Mechanics: advanced

General Shop

2 position slip joint; for 3/4" to 2" diameter; milled (fluted) jaws to hold clamp at right angles to handles; 8"L handles; plastic handles.

3120 Pliers, Ignition

Auto and Power Mechanics: beginning, advanced

Narrow jaws; 3 position slip joint.

Pliers, Lever, Wrench (see: Pliers, Vise-grip wrench #3170).

3125 Pliers, Lineman's

General Shop

6"; side-cutting; forged steel, machined, hardened, and oil tempered; with plastic insulated handles.

3130 Pliers, Long nose

General Shop

6"; side-cutter.

3135 Pliers, Needle nose

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Metalworking: beginning, advanced

6".

3140 Pliers, Retaining ring

Auto and Power Mechanics: beginning, advanced

8" or 5"; designed to grasp retaining springs by their lugs; black lacquer finish.

3145 Pliers, Round nose

General Shop

6"; forged steel.

3150 Pliers, Side-cutting (6")

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Forged steel, machined, hardened, spring tempered handles.

3155 Pliers, Straight nose

Drafting: beginning, advanced

Plastics: beginning, advanced

Metalworking: beginning, advanced.

8"; combination; forced steel.

3160 Pliers, Tongue and groove

Plastics: beginning, advanced

("Channel-lock"). Length: 10"; capacity: 1½".

The same of the sa

3165 Pliers, Tru-arc (#2)

General Shop

For replacing "tru-arc" rings on axles or shafts; for small engine work.

3170 Pliers, Vise-grip wrench

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

7"; easy release.

3175 Pliers, Waterpump

Auto and Power Mechanics: beginning, advanced

5 adjustments ("channel-lock"). 5 position slip joint; jaws parallel opening to 2"; 45° angle jaws; 21/64"T.

opening to 1 ; to ungle june, 11, 11

Plug Cutter (see: Bit, Plug cutter (set) #0330).

3190 Pneumatic Instruction Center (pneumatic power unit)

Auto and Power Mechanics: advanced

Universal mounting system; components suitable for teaching-learning; bench heavy steel top and frame, interior fitted for storage of components, master-keyed doors; instrument panel contains water manometer, mercury manometer, 160 lb. pressure gauge, rotameter, type flowmeter, air compessor controls including switch, fuse, pilot light and convenience outlet; ½ HP oilless compressor with 10 gal. ASME pressure tank, pressure switch and relief valve; circuitry of 3/8" plastic tubing, flexible, with hand-tite fittings; power requirement of 120V 5A, with 3-wire cord and grounded plug.

3195 Polisher, Body

Auto and Power Mechanics: beginning, advanced Portable air polisher; RPM-4500.

3200 Potter's Wheel, Electric

Ceramics: beginning, advanced

General Shop

1/2 HP, 110/220V AC-DC motor; variable speeds 0 to 120 RPM; for-

ward or reverse; 14" cast aluminum alloy throwing head; table 24" x 30". Water and shock-proof switch. 3-wire conductor with ground.

3205 Potter's Wheel, Kick

Ceramics: beginning, advanced

Seated type; welded tubular steel, kick wheel-iron casting machined to true balance 28"D weighs 115 lbs. A $1\frac{1}{2}$ true-level track machined on rim for power attachment.

3210. Potter's Wheel, Side-kick

Ceramics: beginning, advanced

Standing type; welded construction; 14" aluminum wheel head; removable; fiberglass pan; 75 lb. flywheel.

3215 Power Supply, Low voltage

General Shop

AC and DC; 0-15V; maximum 5 amperes.

3220 Power Supply, Variable output

Electricity-Electronics: beginning

General Shop

0-20V AC and DC at 10 amperes; fused or diode protected.

3225 Power Supply, Variable output, Filtered

Electricity-Electronics: advanced

General Shop

0-300V DC at 100 ma; with filament voltages.

3230 Pre-expander, Polystyrene

Plastics: advanced

Steam or electrical 220V, 3-phase; controlled densities from 1 lb. per cubic foot.

3235 Press, Arbor

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: advanced

Auto and Power Mechanics: Hydraulic; 25 ton capacity; pressure gauge; 6" ram travel; hand operated pump; 2 speed.

General Shop and Metalworking: 3 ton capacity gear driven.

3240 Press, Block printing

Elementary

Lever type; prints up to 8" width paper.

3245 Press, Copying

Graphic Arts: beginning, advanced

11" x 16" capacity; ball and socket joint to connect main screw with plate.

3250 Press, Drill (15")

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

15" capacity; variable speed; #2 Morse taper in spindle; floor model; $\frac{1}{2}$ " key chuck; tilting standard table; with $\frac{1}{2}$ HP, 220V, 3-phase motor, and magnetic switch and starter.

3255 Press, Drill (17")

Auto and Power Mechanics: beginning, advanced

Metalworking: advanced

Floor model; variable speed 300 to 3100 RPM; production table with raising and lowering mechanism; #3 Morse taper spindle; key chuck, 1/2" capacity; belt and pulleys completely guarded; 3/4 HP motor (minimum); 220V; 3-phase; push button magnetic control and starter.

3260 Press, Hot stamping

Graphic Arts: beginning, advanced

1" type holder.

3265 Press, Hydraulic, Heated platen

Woodworking: advanced

Minimum capacity of 12 tons with $12'' \times 12''$ platen platen temperatures to be individually controlled and metered; daylight opening to be a minimum of 5''.

3270 Press, Offset

Graphic Arts: beginning, advanced

11" x 15"; 3 cylinder; chain pile; delivery; tumbler grippers, two 1/3 HP, 110V, 60-cycle motors; including all standard equipment and safety grards.

3275 Press, Padding

General Shop

Graphic Arts: beginning, advanced

Bench model; quick adjusting to various size sheets and stock pile height; 12" x 18".

3280 Press, Platen

General Shop

Graphic Arts: beginning, advanced

12" x 18"; handfed; power operated; guards; counter: fountain; variable speed; ½ HP, 220V, 3-phase, 60-cycle motor; with flywheel, pulley, and impression safety guards.





3285 Press, Platen, Automatic feed

Graphic Arts: advanced

10" x 15"; with automatic wash-up; central lubrication system; two-up

attachment; 220V, 3-phase, 60-cycle.

3290 Press, Platen, Hand lever

General Shop

Graphic Arts: beginning, advanced

6" x 10"; with ink disc, depressable grippers, trucks tools and 3

chases. Stirrup handle, 2 rollers; with cabinet.

3295 Press, Proof

General Shop

Graphic Arts: beginning, advanced

Flat bed; impression cylinder; without grippers; base.

3300 Press, Proof, Reproduction

Graphic Arts: advanced

Hand operated; impression cylinder; gripper bar; base.

3305 Press, Rubber stamp

General Shop

Graphic Arts: beginning, advanced

Complete with thermostat, timer, bell, pilot light, temperature gauge,

cord and switch; 1110 V.

3310 Printer, Contact

Graphic Arts: beginning, advanced

Beginning: 35 MM through 5/7; positive paper stops; stainless steel

masks; automatic exposure switch; steel housing; 100V AC.

Advanced: Adjustable margins to 8" x 10"; automatic time control; built-in safe light; built-in-paper and negative holder; 100V AC.

3320 Printmaker, Graphic arts

General Shop

Graphic Arts: beginning, advanced 12" x 12" steel bed; 10 x 14 Chase.

3325 Projection Box, Plastic

Drafting: beginning

3 plastic hinged planes about 12" x 12" per plane and base.

3330 Projection Box, Plastic, Instructor's

Drafting: advanced

Includes hinged plastic planes and base, suspension holes, devices to illustrate points, lines, and planes.

3335 Projection Box, Plastic, Student's

Drafting: advanced

Three 4" x 4" plastic planes hinged with cloth tape.

Projection Screen (see: Screen, Projection #3990).

3340 Projector, Filmstrip (35mm) and slide (2" x 2")

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced Woodworking: beginning, advanced

Self-contained in case with lens cover; threading push-in or automatic; slide carrier: 2" x 2" manual lateral construction; glass pressure plates: all glass pressure plates when used to be securely fastened with metal and no adhesive used; 115V AC; 60 cycles; blower cooled; minimum of 500W lamp. Slide feed: manual local, remote or automatic timed interval.

3345 Projector, Motion picture, Sound

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

16mm; 750-1000W, AC lamp; 6" speaker; 12W amplifier; sound and silent speeds; reverse; still picture device. Separate tone and volume controls; 2-inch f/1.6 lens. 115V-120V AC, 750W lamp—with speaker in separate housing. With 400', 800', 1200', 1600' take-up reels; ASA approved.

3350 Projector, Overhead

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Image stage 10" x 10"; 110-120V; 60-cycle electrical system; minimum length 14' of #16—3-wire cord; minimum 100 hourlamp capable of putting 1700 luimens on the screen; single off-on switch for both lamp and for motor; automatic thermal switch for running fan from 3 to 5 minutes after lamp is turned off; head with tilt mechanism up to 30°; focusing mechanism rack and pinion with knob for controls; heavy duty vinyl dust cover; size approximately 18" x 13" x $10\frac{1}{2}$ ".

3355 Protractor, Chalkboard

Drafting: beginning, advanced

15" hardwood; with magnets, holding knob, hanger holes.

3360 Protractor, Machinist's bevel

Woodworking: beginning, advanced 12" blade; with level in cast iron head.

3365 Protractor, Semi-circular

Drafting: beginning, advanced

Elementary

General Shop

6'' molded plastic, beveled edge; graduated in $\frac{1}{2}$ degree increments from $0^{\circ}-180^{\circ}$.

3370 Pug Mill, Laboratory model

Ceramics: advanced

Extrusion auger machine, de-airing type; tub size 9" x 4'; capacity in 8 hours 1500-2000 lbs.; weight 300 lbs.

3375 Pug Mill, Studio model

Ceramics: advanced

Mixes clay to throwing or modeling consistency; $1\frac{1}{2}$ HP, single-phase motor; $58'' \times 30'' \times 2''$; capacity 200-300 lbs./hr.

3380 Pug Mill, Vertical

Ceramics: beginning, advanced

12" vertical; weight 780 lbs.; 3 HP motor required; delivers pugged clay at rate of 18" per minute; 3" diameter.

3385 Pug Mill, Extrusion

Ceramics: beginning

Table model; with extrusion dies; $40^{\circ\prime}L \times 8\frac{7}{8}^{\prime\prime}W \times 9\frac{1}{2}^{\prime\prime}H$; chromium plated to prevent corrosion and wear; 1/3 HP, 115V AC/DC motor; 90 lbs. unit weight; 100 lbs. of clay can be extruded per hour.

3390 Puller Assembly

Auto and Power Mechanics: beginning, advanced

(Harmonic Balancer Puller) designed for jobs with tapped holes, containing 4 slatted yoke to allow use of the tool in 2, 3 hole applications—center screw, swivel and spring, side screws 3 @ 5/16-18 x 2", 3 @ 3/8-24 x 2", 2 @ 3/8-16 x 4".



3395 Puller Assembly (large)

Auto and Power Mechanics: advanced

(2-way Puller Kit) inside and outside jaws heavy duty thread; steel yoke and adjusting nut; with accessories.

3400 Puller, Auto body metal (set)

Auto and Power Mechanics: advanced

Including 10 ton hydraulic unit; extension tubes; adjustable spoon blades.

3405 Puller, Axie

Auto and Power Mechanics: advanced Universal puller.

3410 Puller, Freeze plug

Auto and Power Mechanics: advanced

3415 Puller, Gear (set)

Auto and Power Mechanics: advanced

(3 jaw reverse gear puller) reversible 3 jaws having a wide face on one end and narrow face on the other; sturdy center screw.

3420 Puller, Seal (set)

Auto and Power Mechanics: advanced
With adapters ranging from 1%-2-7/16.

3425 Puller, Steering wheel

Auto and Power Mechanics: advanced

Capable of removing all makes of steering wheels on cars and trucks; completely universal.

3430 Puller. Valve guide and valve

Auto and Power Mechanics: advanced

(Valve Puller) pulls valves on all makes of cars up to 1¾" head diameter; direct pulling action; tapered pulling head to cradle valve; steel yoke.

(Valve Guide Puller) accessory to above; to remove valve guides 5/16'' diameter; shank knurled; nuts to be supplied to cover guide sizes 5/16'', 11/32'', 3/8'', 7/16'', 1/2'' guides.

3435 Puller, Wheel (set)

Auto and Power Mechanics: advanced

Combination slide, hammer and screw type puller containing 2/3 way yoke; 3 medium outside jaws, 2 small inside jaws; 3 large outside jaws; 13" pressure screw; slide hammer shaft; booster hammer; combination yoke; locking collar; locking collar nut; disc spreader; set screw; yoke pin; centering adapter; spring retainer; bar handle; metal storage case.

3440 Pulverizer, Laboratory model

Ceramics: beginning

Casing accurately machined inside; fitted with removable head; grind-

ing spider made of one piece cast steel and machined; replaces mortar and pestle method of grinding clay samples.

3445 Pump, Oil drun

Auto and Power Mechanics: beginning, advanced For 55 gal. drums.

3450 Pump, Slip, Duplex

Ceramics: advanced

For filter press assembly; laboratory type.

3455 Punch, Center (set)

Auto and Power Mechanics: beginning, advanced Electricity-Electronics. beginning, advanced

Elementary General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Set of 5; 1/16'' to 1/4'' diameter at tapered point; knurled grip; hardened at both ends.

3460 Punch, Chassis (round set)

Electricity-Electronics: beginning, advanced

General Shop

Two piece dies; $\frac{7}{8}$ ", $\frac{3}{4}$ ", $\frac{1}{7}$, $\frac{1}{8}$ ".

3465 Punch, Chassis (square set)

Electricity-Electronics: beginning, advanced

General Shop

Two piece dies; 1/2", 3/4", 1".

3470 Punch, Drift (set)

Auto and Power Mechanics: beginning, advanced 3/32'' to 1/2'' by 32nds.

3475 Punch, Drive (set)

Metalworking: beginning, advanced

Set of five; punch diameter 1/8" to 3/8"; 8"L; round shank; knurled grip.

3480 Punch, Hand (set)

Elementary

Plastics: beginning, advanced

For light sheet metal; set of 7 punches and dies; 3/32" to 9/32"; complete with metal box.

3485 Punch, Hollow (set)

Metalworking: beginning, advanced 3/8", 1/2", 5/8", 3/4", 1", 11/2", 2".

3490 Punch, Leather, Revolving

Elementary

General Shop

6 tubes sizes; 8"L.

3495 Punch, Paper

Drafting: beginning, advanced

General Shop

Graphic Arts: beginning, advanced

Drafting: Multiple type; punches 1 to 4 holes simultaneously; with

adjustable paper guide and punch depressors.

Graphic Arts: Table size, 12" x 18"; drill diameters, 1/8" to 3/8"; maximum capacity, 11/2"; side and back margin guide; 1/4 HP, 110V, 60-cycle, single-phase, AC motor.

3500 Punch, Pin (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Plastics: beginning, advanced

4"L; set includes diameters from 1/16" to $\frac{1}{2}$ " by 32nds.

3505 Punch, Tinner's (set)

General Shop

3510 Pyrometer, Optical

Ceramics: beginning, advanced

Shelf-contained; direct reading; light weight (3½" ½s.). Actual matching of brightness is achieved by making the apparent brightness of the glowing body equal to that of the standard light of constant intensity.

3515 Pyrometer, Portable

Ceramics: beginning, advanced

Elementary

Built into a metal case and comes with 30" thermocouple; range to 2500°F.

3520 Pyrometer, Radiation

Ceramics: beginning, advanced

For quick and accurate method of determining temperatures above 1000°F by thermo-electric principles.

3525 Quoin, Hi-speed

General Shop

Graphic Arts: beginning, advanced

3" and 9".

3530 Quoin Key, Hi-speed

General Shop

Graphic Arts: beginning, advanced



3535 Rack, Enameling

General Shop 4" x 3"; mesh.

3540 Rack, Glue clamp

Woodworking: beginning, advanced

72" x 36" x 32"H; open top with sets of grooves to accept bar clamps three feet and over; lower center rail suitable for storing hand screws and C-clamps.

3545 Rack, Lumber

Plastics: beginning, advanced

Horizontal or vertical with storage for approximately 250 board feet of lumber; plywood and hard board storage provided for approximately 36 pieces 48" x 96".

3550 Rack, Magazine

Drafting: advanced

Magazine shelving, 60"H, 12"D, and 36"L; with shelves adjustable every inch; magazine shelves providing a convenient slope for display of current periodicals; storage behind.

3555 Rack, Metal storage

Metalworking: beginning, advanced

Plastics: beginning, advanced

All steel; vertical; approximately 4'W x 9'H; sloping front section with adjustable troughs for bar, rod, angle, etc.; back section open at both ends to accommodate 4' x 8' sheet stock.

3560 Rack, Roll, Tympan

Graphic Arts: beginning, advanced 18"; tension bar with brackets.

3565 Rack, Roll, Wrapping paper

Graphic Arts: beginning, advanced 24"; tension bar with brackets.

3568 Rack, Roll, Wrapping paper

Woodworking: advanced

36"; tension bar with brackets.

3570 Radiator Test Plugs (set)

Auto and Power Mechanics: advanced

3575 Rammer, Hardwood

General Shop

Metalworking: beginning, advanced

Rasp, Wood (see: Files #1540)

3580 Ream, Center (set)

Metalworking: beginning, advanced 60° included angle; high speed; sizes 1/4", 3/8", 1/2", 5/8", 3/4".

3585 Reamer, Cylinder ridge

Auto and Power Mechanics: advanced

Range 2-11/16" to 5-5/16"; full swivel yoke; will ream modern slant block angines as well as standard cylinders; tungsten carbide cutters.

3590 Reamer, Electrician's hand

Electricity-Electronics: beginning, advanced 1/4" tip; tapered; 5"L.

3595 Reamer, Expansion (set)

Auto and Power Mechanics: advanced

Metalworking: advanced

Set of 8; A to H; semi-high speed steel blades.

3600 Reamer, Pipe

Metalworking: beginning, advanced 1/8" to 1"; round shank.

3605 Reamer, Valve seat (set)

Auto and Power Mechanics: advanced

9/32'', 5/16'', 11/32'' expanding pilots; reamer arbor; 45° finishing reamers ($1\frac{1}{4}$ '', 1-5/16'', $1\frac{3}{8}$ '', $1\frac{1}{2}$ '', $1\frac{5}{8}$ '', $1\frac{3}{4}$ ''); 30° finishing reamers ($1\frac{1}{2}$ '', $1\frac{5}{8}$ '', $1\frac{3}{4}$ ''); 20° narrowing reamers ($1\frac{1}{2}$ '', $1\frac{7}{8}$ ''); 70° narrowing reamers (1-7/16'', 1-11/16'').

3610 Reels, Drop cord

Auto and Power Mechanics: beginning, advanced 3 wire: 50': heavy duty; U ground.

3615 Refacer, Valve (set)

Auto and Power Mechanics: advanced

General Shop

0-90 with positive stops at 14, 15, 19, 20, 29, 30, 44, 45, 90; flexible drive shaft; coolant tank; quick set valve stop; collets 9/32" to 9/16"; diamond dresser; tappet holder.

3620 Reglets, Wood

General Shop

Assorted sizes in fronts.

3625 Remover, Stud (set)

Auto and Power Mechanics: advanced

Wedge type action; 1/2" square drive; spring tension pin to hold wedges in place; 2 different sized wedges to increase usable range.

3630 Repair Kit, Drafting instrument

Drafting: advanced

Includes bearings, T-bolts and nuts, needle points to fit instruments in #2190 or #0925.

3645 Rethreader, Axle

Auto and Power Mechanics: advanced

For restoring damaged axle threads; clamp action; sizes $\frac{5}{8}$ "-18, $\frac{3}{4}$ "-16, $\frac{7}{8}$ "-14, $\frac{11}{8}$ "-12, $\frac{11}{4}$ "-12.

3650 Rethreader, Spark plug hole

Auto and Power Mechanics: advanced Spark plug tap.

3655 Rheostat, 10 ohm

Auto and Power Mechanics: advanced

3660 Riddle, Foundry

General Shop

Metalworking. beginning, advanced

3-ply laminated frame; wire screen 8 mesh to the inch.

3665 Rivet Set

General Shop

Metalworking: beginning, advanced Set of 5; sizes #3, #4, #5, #6, #7.

3670 Riveter, "Pop" (set)

Elementary

3675 Router, Portable, Electric

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

1/2 or 7/8 HP; with recessed switch; 1/4" collet capacity; dual knobs; micrometer depth adjustment; removable base; guide for straight and circular cuts; template guide; assorted cutters as needed; with 3 conductor plug and cord.

3680 Rotary Machine, Combination

General Shop

Metalworking: advanced

24 ga. capacity; depth of throat 7"; distance between shaft centers 2"; with crimping; beading; furnace offset edging; and offset rolls.

3685 Rule, Brass

General Shop

Type high.

3690 Rule, Circumference (36")

Metalworking: beginning, advanced

Tinners with liquid and dry measure dimension tables; standard measurements to 8ths.

3695 Rule, Flexible, Steel tape (6')

General Shop

Woodworking: beginning

1/2" replaceable blade.

158

3700 Rule, Flexible, Steel tape (8')

Elementary

General Shop

Woodworking: advanced

1/2" replaceable blade.

3705 Rule, Flexible, Steel tape (10')

Auto and Power Mechanics: beginning, advanced

Woodworking: beginning, advanced

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3/4"; with black markings on white background; plated steel case, 2"W; marked both edges in 16ths; first six inches upper edge to 32nd.

3710 Rule, Flexible, Steel tape (12')

Drafting: advanced

Metalworking: beginning, advanced

3/4"; with black markings on white background; plated steel case, 2"W; marked both edges in 16ths; first six inches upper edge to 32nd.

3715 Rule, Flexible, Steel tape (25')

Woodworking: beginning, advanced

3/4"; with black markings on white background; plated steel case, 2"W; marked both edges in 16ths; first six inches upper edge to 32nd.

3720 Rule, Flexible, Steel tape (50')

Woodworking: advanced

3/4"; with black markings on white background; plated steel case, 2"W; marked both edges in 16ths; first six inches upper edge to 32nd.

3723 Rule, Flexible, Steel tape (100')

Drafting: advanced

Woodworking: Beginning, advanced

Jet black markings on 1/2" chrome-white surface; figures and graduation bonded to line and protected by electroplating; rust resistant welded steel lines covered with leather; folding flush handle opened by push pin.

3725 Rule, Hook

Metalworking: advanced

12"L.

3730 Rule, Make-up

Graphic Arts: beginning, advanced Polished tempered steel.

3735 Rule, Maple (24")

General Shop

Brass tips.



3740 Rule, Short (set)

Metalworking: advanced

Short set of five; with holder; $\frac{1}{4}$ " to 1".

3745 Rule, Steel (6")

Metalworking: beginning, advanced 10ths, 100ths, 32nd, 64ths.

3750 Rule, Steel (12")

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Graduated to 16th inch.

3755 Rule, Steel (24")

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Graduated to 16th inch.

3760 Rule, Steel (36")

General Shop

Woodworking: beginning, advanced

Graduated to 16th inch.

3765 Sand Blaster

Metalworking: advanced

Booth; sand blast gun; hose.

3770 Sand Muller

Metalworking: advanced

Capacity: approximately 25 pounds of dry material.

3775 Sander, Band

Elementary

Portable; may also be used for grinding; band 1" x 42"; V-belt drive; complete with $\frac{1}{2}$ HP motor; 110V AC; single-phase; 3 conductor cord.

3780 Sander, Belt, Portable, Electric

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

3" x 24" or 4" x 24"; spur gear, belt drive, ball and needle bearings;

with dust bag; 115Y AC motor with 3 conductor cord.

3785 Sander, Combination belt and disc

General Shop

Woodworking: beginning, advanced

6" belt and 12" disc; floor model with metal stand; tilting table adjustable from 0° to 45° and slotted from mitre gauge; guarded to expose only moving sanding surfaces; tilting fence; belt adjustable to a vertical or horizontal position; motor: 1 HP, 60 cycles, 220V, 3-phase, magnetic switch and starter.

3790 Sander, Disc

Plastics: beginning, advanced

12" minimum diameter; ¾ HP; 220V; 3-phase; tilting table or disc; mitre gauge magnetic switch and starter.

3795 Sander, Finishing, Portable, Electric

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

Heavy duty; 1/4" to 1/8" orbital action; abrasive paper size 1/2 of standard sheet; trigger switch; 3 conductor cord.

3899 Sander, Finishing, Portable, Air

Auto and Power Mechanics: advanced Orbital or straight line action; air driven.

3805 Sander, Handblock stroke

Woodworking: advanced

Six inch belt with stock capacity of 4" thick and 60" long, rolling table, 1 HP heavy duty motor, dust collector hood ready for connection to exhaust system, hand block, and with 3 each of 80 and 120 grit cloth abrasive belts.

3810 Sander, Spindle

Plastics: beginning, advanced

Woodworking: beginning, advanced

For 9" oscillating abrasive sleeves. Throat plates and sleeves in standard sizes; table tilts to 45°; on floor stand with $\frac{1}{2}$ HP 3-phase 220 motor with magnetic switch and starter.

3815 Sanding Drums (set)

Plastics: beginning, advanced

Woodworking: beginning

3" x 3" diameter with $\frac{1}{2}$ " shank; $1\frac{3}{4}$ " x 2" diameter with $\frac{1}{2}$ " shank; 11/16" x $2\frac{1}{2}$ " diameter with $\frac{1}{2}$ " shank; $1\frac{1}{2}$ " x 1" diameter with $\frac{1}{2}$ " shank; 3" x 3" diameter with #2 Morse taper; $1\frac{1}{2}$ " x 1" diameter with #2 Morse taper.

3820 Saw, Back

Elementary General Shop

Graphic Arts: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

12".

3825 Saw, Band, Metal-cutting

Metalworking: advanced

18" capacity; saw blade capacities from 1/16" to 1" wide, approximately 12' long. With speeds of 50-2000 f.p.m.; including air blower, chip remover, tilting table, V-belt drive, assorted blade guides, and attached blade welding device; 220V, 3-phase with magnetic switch and starter.

3830 Saw, Band, Wood-cutting

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

14" floor model complete with enclosed metal base, tilting table grooved for mitre gauge, and with ball bearing guides; motor: ½ HP, 60 cycles, 220V, 3-phase with magnetic switch and starter.

or: 20" floor model complete with enclosed metal base, tilting table grooved for mitre gauge, foot brake, and with ball bearing guides; motor: 1½ HP, 60 cycles, 220V, 3-phase with magnetic switch and starter.

3835 Saw, Circular, Power

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

10" floor model with enclosed metal base, tilting arbor, quick positioning rip fence, mitre gauge, and safety guard with splitter; motor: 1½ HP, 60 cycles, 220V, 3-phase with magnetic switch and starter.

or: 12" floor model with enclosed metal base, quick positioning rip fence, mitre gauge, and safety guard with splitter; motor: 5 HP, 60 cycles, 220V, 3-phase with magnetic switch and starter.

3840 Saw, Compass (set)

Elementary

General Shop

Nest of 3 blades and 1 handle in set comprising compass keyhole and metal-cutting blade.

3845 Saw, Coping

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Plastics: beginning, advanced



Woodworking: beginning, advanced

6½" pin-end, screw-type handle; adjustable to any angle; rigid frame.

Saw. Hack (hand) 3850

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Die cast metal handle aluminum alloy; tubular body adjustable to re-

ceive 9"-12" blade.

3855 Saw, Hack, Close quarter

General Shop

With very shallow depth, for limited clearance work.

Saw, Hack, Power 3860

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Minimum capacity 6" x 6"; swivel, (adv.) vise; automatic stop; pressure feed control; automatic lift on reverse stroke, built-in coolant tank and pump; 1/2 HP motor; 220V; 3-phase; magnetic push button starter.

or: Minimum capacity 5" x 5" swivel vise; automatic stop; automatic lift on reverse stroke; 1/3 HP motor; 220V; 3-phase; magnetic push button starter.

3865 Saw, Hand, Crosscut

Electricity-Electronics: beginning, advanced

Elementary General Shop

Plastics: beginning, advanced Woodworking: beginning, advanced

22" 10 point; straight back, highly polished, taper ground.

3870 Saw, Hand, Rip

General Shop

Woodworking: beginning, advanced

26" 51/2 point; straight back, highly polished, taper ground.

3875 Saw. Jeweler's (4")

General Shop

Metalworking: beginning, advanced

4"D; adjustable frame with tension screw

Saw, Jeweler's (6") 3880

Metalworking: beginning, advanced 6"D; adjustable frame with tension screw.

3885 Saw, Jig (scroll)

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced

24"; complete with metal stand; motor 1/3 HP, single-phase, 60cycle, AC, 115V; equipped with starting switch, 3 conductor cord.

Saw, Keyhole **3887**

Woodworking: beginning, advanced 10" taper ground blade.

Saw, Printer's trim 3890

Graphic Arts: beginning, advanced

Micrometer gauge capacity, 78 pieces capacity in front of saw blade 20", 24" by undercutting; clamp open capacity 7"; clamp hold as short as 8 points; saw blade diameter, 7"; overall table dimension 181/2"x 221/2"; 1/2 HP, 220 V, 60-cycle, 3-phase motor; micrometer gauge, chip truck; 7" diameter blade; 3 trimmer bits; standard safety guards.

Saw, Radial-arm, Power 3895

General Shop

Woodworking: advanced

10" saw complete with stand, table extensions, floating saw guard, exhaust nozzle, safety reutrn reel, anti-kickback attachment, bevel positive stops of 0°, 45°, and 90°, mitre positive stops of 0°, 45° right and left; motor totally enclosed and fan cooled, 2 HP, 60 cycles, 200V, 3-phase with magnetic switch and starter.

Saw, Sabre (bayonet) 3900

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: advanced

Portable; heavy duty; lightweight; aluminum housing; angle adjust-

ment base; 115V, with cord and 3 conductor cord.

Saw, Veneer 3905

Woodworking: advanced

3910 Sawhorse

Elementary

Approximately 24"H x 48"L; flat top 2" x 8" or 2" x 10"; for clamping material when sawing with coping saw. (Usually homemade.)

3915 Sawjack

Elementary

Wood; V-cut in end; approximately \(\frac{5}{8}'' \times 5'' \times 10'' \text{. (Homemade.)} \)

3925 Scale, Architect's

Drafting: beginning, advanced

General Shop

12" triangular; boxwood; engine divided; graduations: 3/32, $\frac{1}{8}$, 3/16, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $\frac{11}{2}$, 3" each equalling 1'-0".

3930 Scale, Chalkboard (demonstration)

Drafting: beginning, advanced

Minimum length 6' triangular; can be rotated; with mounting brackets.

3935 Scale, Decimal, Civil engineer's

Drafting: advanced

General Shop

12" triangular; boxwood; engine divided; graduations: 10, 20, 30, 40, 50, 60 parts to the inch.

3940 Scale, Household

Woodworking: advanced

Accuracy to 1/4 ounce; capacity approximately 5 lbs.; dial adjustable to compensate for container weight.

3945 Scale, Laboratory

Ceramics: beginning, advanced

Plastics: beginning, advanced

Precision accuracy; reading is graduated in both avoirdupois and metric; will weigh 100 grams; pans are of acid-resistant aluminum.

3950 Scale, Mechanical engineer's

Drafting: beginning, advanced

12" triangular; boxwood; engine divided; graduations: $\frac{1}{2}$ " = 1'-0", 3" = 1'-0", $4\frac{1}{2}$ " = 1'-0", 6" = 1'-0", 9" = 1'-0", full size, 1" = 1'-0".

3955 Scale, Metric

Drafting: advanced

12" triangular; plastic; engine divided; graduations: 1 cm., 2 cm., 2.5 cm., 3 cm., 5 cm.

3960 Scale, Triple beam

Ceramics: beginning, advanced

310 gram capacity; direct-reading dial—10 grams to .01 gram; with 6"D removable pan, 6"D non-removable flat platform, and $12" \times 6" \times 2\%$ " brass scoop.

3965 Scissors

Auto and Power Mechanics: beginning, advanced

Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

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Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

8": trimmer; paper shears.

3970 Scoop, Plaster

Plastics: beginning, advanced Household sugar scoop type.

3975 Scrape Granulator

Plastics: advanced Rotary knife type.

3980 Scraper, Cabinet

Elementary

Ceneral Shor

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced Malleable iron frame with 234" blade.

3985 Scraper, Carbon

Auto and Power Mechanics: beginning, advanced

Wire blades; high quality spring steel; flexibility controlled by movable ferrule.

3990 Scraper, Flexible

Ceramics: beginning, advanced

Spring steel in rectangle and half moon shapes; used for smoothing and trimming pottery shapes.

3995 Scraper, Hand

Elementary

General Shop

Plastics: beginning, advanced

Woodworking: beginning, advanced Approximately 3" x 5" steel blade.

4000 Scraper, Rigid

Ceramics: beginning, advanced

For smoothing or cutting clay and plaster surfaces; scraper plain or toothed.

4005 Screeding Wheel

Plastics: beginning, advanced.

Shop made; none commercially available; hand operated turn table approximately 18" diameter; mounting for screeds above.

Screen, Arc welding (see: Welding Screen, Portable #5205)

4010 Screen, Projection

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

60" x 60"; vinyl mat-white; wall-mounted with brackets providing

adjustment to correct for keystone effect.

4015 Screens, Halftone, Contact

Graphic Arts: beginning, advanced

Grey; magneta; pre-angled.

4020 Screwdriver, Cabinet tip

General Shop

4" and 6".

4025 Screwdriver, Clutch-head (set)

Auto and Power Mechanics: beginning, advanced

Plastic handles.

4030 Screwdriver, Insulated (set)

Electricity-Electronics: beginning, advanced

General Shop

Regular blades 3/16" and 9/32"; with 4", 6", and 8" shafts.

4035 Screwdriver, Offset, Phillips (set)

General Shop

Metalworking. advanced

4040 Screwdriver, Offset ratchet

Woodworking: beginning, advanced

4045 Screwdriver, Offset, Straight slot (set)

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

Set with tips of 3/16", 9/32", and 11/32".

4050 Screwdriver, Phillips (set)

ERIC

Auto and Power Mechanics: beginning, advanced

Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced Set with points #1, #2, #3.

4055 Screwdriver, Retaining type

Electricity-Electronics: beginning, advanced 3/16" blade, 1/8" shaft, straight slot.

4060 Screwdriver, Spiral ratchet

Auto and Power Mechanics: advanced Woodworking: beginning, advanced With replaceable bits.

4065 Screwdriver, Standard bit (changeable blades) (set)

Elementary

Set of 5; standard tips 4", 6"; cabinet tips 4", 6"; Phillips tip #1 size.

4070 Screwdriver, Standard bit (round blade) (set)

Drafting: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced

Set of 5; blade widths of 3/16'', $\frac{1}{4}''$, 5/16'', $\frac{3}{8}''$, $\frac{1}{2}''$.

4075 Screwdriver, Standard bit (square blade) (4")

Auto and Power Mechanics: beginning, advanced Square shank; plastic handle.

4080 Screwdriver, Standard bit (square blade) (6")

Auto and Power Mechanics: beginning, advanced Drafting: beginning, advanced Square shank; plastic handle.

4085 Screwdriver, Standard bit (square blade) (8")

Auto and Power Mechanics: beginning, advanced Square shank; plastic handle.

4090 Screwdriver, Standard bit (square blade) (10")

Auto and Power Mechanics: beginning, advanced Square shank; plastic handle.

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4095 Screwdriver, Stanadard bit (square blade) (12")

Auto and Power Mechanics: beginning, advanced

Square shank; plastic handle.

4100 Screwdriver, Standard bit ("stubby")

Auto and Power Mechanics: beginning, advanced

General Shop

Square shank; plastic handle.

4105 Scriber

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Complete with 3 points: 1 straight, 1 short bent, 1 long bent.

4110 Seamer, Handy

General Shop

Metalworking: beginning, advanced

4115 Sieve, Test laboratory

Ceramics: beginning, advanced

Made to exact standards of both U.S. Bureau of Standards and The National Bureau of Standards; solid polished brass or polished tinned steel; diameter 8"; mesh sizes 30 to 120.

4120 Setting Down Machine

Metalworking: advanced

4125 Sewing Machine

Elementary

Portable or upright; used domestically for sewing coarse materials, light leathers, etc.

4130 Shaper, Metal

General Shop

Metalworking: advanced

12" to 15" stroke; specifications to be included according to need: cutting speeds, table travel—horizontal and vertical, tool head, drive unit, lubricating system, drive unit including motor and switches, cross feed—power and hand, vise, and shaper tools.

4135 Shaper, Spindle (floor model)

Woodworking: advanced

Complete with interchangeable spindles 5/16'', $\frac{1}{2}''$, $\frac{3}{4}''$, and 1''; adjustable fence, hold-down guides and fence guard assembly; motor: 1 HP, 60 cycles, 220V, 3-phase, including reversible switch and overload protection.

4140 Shear, Leather

General Shop

8".

4145 Shear, Ring and circle

Metalworking: advanced

Minimum gauge: mild steel 20 ga.; minimum circle from square

blanks 31/2" to 24".

4150 Shear, Squaring foot

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Minimum capacity mild steel 16 gauge; minimum cutting length 36" anti-pinch and toe guard.

4155 Shearing and Forming Machine, Universal

Plastics: advanced

Capacity 5/32" mild steel; throat 42"D; 1 HP, 220V, 3-phase motor; variety of cutting and forming tools.

4160 Sheet Metal Tool

Elementary

Vise grip forming and bending tool, jaw width $\frac{3}{8}$ "; throat depth $1\frac{3}{4}$ "; length 8".

4165 Shield, Face

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced Woodworking: beginning, advanced

Shatterproof; 6" shield; adjustable headband; hinged visor. (Must con-

form to ASA 22.1-1959.)

Eye shield. (For grinders) Fits all grinders; steel frame; fitted with safety glass; adjustable up, down and to tilt. (For woodworking, spot welding, metal sawing, etc.) (Lightweight, cushioned headband; full vision visor gives essential and adequate protection to face and eyes against impact; visor may be raised to set position; .040" thick, 4", 6" or 8"L. (Approved and exceed ASA Spec Z2.1-1959.)

4170 Shovel, Square point

General Shop

Metalworking: beginning, advanced

For foundry shoveling.

4175 Sifter

Ceramics: beginning, advanced

General Shop

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Light weight plastic; 80 mesh screen; wire permanently sealed to plastic; twisted wire handle; small size 1" diameter, large size 2" diameter.

4180 Signal Generator

Electricity-Electronics: advanced

General Shop

Sine Wave range 20-200,000 c.p.s.; Square Wave range 60-50,000 c.p.s. RF and AF.

Signal Tracer 4185

Electricity-Electronics: beginning, advanced Wide range demodulator; AC supply only.

Sign-maker Set 4190

Drafting: advanced

Includes guide holder, assorted guides for capital and lower case letters and numerals, brush and felt pens, and ink supply.

Silk Screen Unit 4195

General Shop

Graphic Arts: beginning, advanced

Printing frames; #12 silk; squeegee; ink; film sheets; film-cutting knives; lettering brushes; ink mixing knives; frame tape and register guides.

Sinks, Developing 4200

Graphic Arts: beginning, advanced

Temperature controlled; accommodates 3 20" x 24" trays; washer viewer; 110V AC.

4205 Sinks, Platemaking

Graphic Arts: beginning, advanced

Inside dimension 29" x 40" x 8"D; built-in spray pipe full length of sink; all-purpose side tray.

Siphon, Photo 4210

Graphic Arts: beginning, advanced

4215 Skife

Elementary

A tool for skiving leather, uses a narrow razor blade in a special frame.

4220 Slab, Inking

Elementary

Plate glass; for block printing; approximately 6" x 6" x 1/4"T or heavier; ground and polished edges for safety.

Sleeves, Molder's 4222

Metalworking: beginning, advanced

4225 Slick and Oval (1")

Metalworking: beginning, advanced

4230 Slick and Oval (11/4")

Metalworking: beginning, advanced

4235 Slugs (6 point) (25 lb. pkg.)

General Shop

4240 Snap Fastener (set)

Elementary

General Shop

For beginning leatherwork; hexagonal setting tool; 4" flat anvil and two bodkins.

4250 Snip, Aviation (left)

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

10"L; compound leverage.

4255 Snip, Aviation (right)

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

10"L; compound leverage.

4260 Snip, Aviation (combination and straight)

Elementary

General Shop

Metalworking: beginning, advanced

10"L; compound leverage.

4265 Snips, Hawksbill

General Shop

Metalworking: beginning, advanced

3" cut.

4270 Snips, Tin, Curved blade

General Shop

Curved blade; 3".

4275 Snips, Tinner's, Straight (#8)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Steel laid.

4280 Snips, Tinner's, Straight (#10)

Metalworking: beginning, advanced

Steel laid.

4285 Socket, Deep spark plug (13/16")
General Shop
3/8" drive.

4290 Socket, Deep spark plug (11/2")
General Shop

3/8" drive.

Socket Wrench (see: Wrench #5255-#5470)

4295 Soldering Copper, Electric (60W)

Electricity-Electronics: beginning

Elementary
General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced 1/4" copper tip with stand.

4300 Soldering Copper, Electric (200W)

Metalworking: beginning, advanced

4305 Soldering Copper, Electric (300W)
Metalworking: advanced

4310 Soldering Copper, Electric pencil

Electricty-Electronics: beginning, advanced 30W; tellurium tip; 7" slim handle.

4315 Soldering Copper (pair) (½ lb.)

Metalworking: beginning, advanced

4320 Soldering Copper (pair) (1 lb.)

Metalworking: beginning, advanced

4325 Soldering Copper (pair) (1½ lb.)

Metalworking: beginning, advanced

4330 Soldering Copper (pair) (2 lb.)

Auto and Power Mechanics: beginning, advanced General Shop

4335 Soldering Gun, Electric

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced

Elementary General Shop

ERIC

Dual-heat; spotlight; 240-325W.

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4340	Spacer, Leather marker General Shop Size 6.
4345	Spaces, Assorted fonts (6 point) General Shop
4350	Spaces, Assorted fonts (8 point) General Shop
4355	Spaces, Assorted fonts (10 point) General Shop Graphic Arts: beginning, advanced
4360	Spaces, Assorted fonts (12 point) General Shop Graphic Arts: beginning, advanced
4365	Spaces, Assorted fonts (14 point) General Shop
4370	Spaces, Assorted fonts (18 point) General Shop Graphic Arts: beginning, advanced
4375	Spaces, Assorted fonts (24 point) General Shop
4380	Spaces, Assorted fonts (30 point) General Shop
4385	Spaces, Assorted fonts (36 point) General Shop
4390	Sparklighter General Shop Metalworking: beginning, advanced
4395	Spatula General Shop 1/2" x 3" blade.
4400	Spokeshave, Convex bottom Woodworking: beginning, advanced Malleable iron frame.
4405	Spokeshave, Straight General Shop Woodworking: beginning, advanced Malleable iron frame.
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Soldering Iron (see: Soldering Copper #4295-#4330).

4410 Sponge, Bulb

General Shop

Rubber bulb; camel hair brush; 8 oz.

4415 Sponge, Elephant ear shape

Ceramics: beginning, advanced

Elementary

Fine grain; for finishing clay forms. Highly absorbent; for finishing pottery; %" thick average.

4420 Sponge, Sheep wool

Ceramics: beginning, advanced

Natural shaped Mediterranean; 4"-5" diameter average size; soft.

4425 Spoon and Gate Cutter

General Shop

1" wide; molder's tool.

4430 Spoons, Measuring (set)

Elementary

4435 Spout, Pouring, Oil can

Auto and Power Mechanics. beginning, advanced

1 qt.; pierce type; heavy gauge steel; hardened steel cutter for piercing oil cans; nickel plated.

4440 Spray Booth, Ceramic

Ceramics: advanced

24" x 24" x 28"; with 10" electric exhaust fan; glass wool filters;

with stand. (Must conform to ASA standards.)

4445 Spray Booth, Dry

Ceramics: beginning, advanced

Metalworking: advanced Plastics: beginning, advanced

Woodworking: advanced

5'W, 7'H, 4' working depth, 6'8" overall depth; constructed of #18 ga. black iron panels, each panel formed with companion flanges punched on 10" centers for bolted assembly; will have fire deflector curtain; rear of booth will be provided with a bank of (12) 20" x 20" x 2" dry paper paint arrestor filter cells; each cell to contain (2) 20" x 20" x 1" filter pads with snap-in grids; to include: 1 24" diameter exhaust fan; one ½ HP, 220V, 60-cycle, 3-phase explosion-proof ball bearing motor; two 200W angle type explosion-proof reflectors and lamps; two light fixture mounting brackets; one 24" diameter manual damper; one 24" diameter 3'0" long exhaust stack with access door; one oil and water extractor and pressure regulator. (Must conform to ASA standards.)

Ceramics: Bench type; 20 gauge sheet metal; bolts and flanges outside of booth for easy cleaning; equipped with distributing plate to

equalize flow of air; 3'6"W x 6'1"H; working depth 1'11"; bench height 2'7"; 1/4 HP fan motor required.

4450 Spray Gun (all-materials)

Plastics: beginning, advanced

Disposable container; (requires compressed air source).

4455 Spray Gun Outfit

Auto and Power Mechanics: advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

General purpose, removable spray head, external mix, with combination nozzle for general use, complete with cup for suction feed, hose, and fittings to complement available air supply.

4460 Spray Gun, Touch-up

Ceramics: beginning, advanced

Gun body of 1 piece aluminum; plated for surface protection; gun head of drop forged bronze; needle value of hardened steel.

4465 Spray Unit, Reinforced plastics

Plastics: advanced

Integrated segmenter for glass rovings and nozzle system to spray chopped rovings, resins, and catalyst; boom for mounting equipment; tanks for resins and catalyst; suitable pressure regulators and controls.

4475 Sprinkling Can

General Shop

Galvanized steel.

4480 Square, Combination

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced

12".

4485 Square, Combination set (with protractor and center head)

Drafting: advanced

General Shop

Metalworking: beginning, advanced Plastics: beginning, advanced

12".

4490 Square, Steel framing

Electricity-Electronics: beginning, advanced

Elementary

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General Shop
Graphic Arts: beginning, advanced
Plastics: beginning, advanced
Woodworking: beginning, advanced
12" x 24".

4495 Square, Try (6")

Electricity-Electronics: advanced

Elementary

Woodworking: beginning, advanced

4500 Square, Try (8")
Elementary

General Shop

4505 Square, Try (12")

Woodworking: beginning, advanced

4510 Stake, Beakhorn

General Shop

Metalworking: beginning, advanced

4515 Stake, Bevel edge square

Metalworking: advanced

4520 Stake, Blowhorn

General Shop

Metalworking: beginning, advanced

4525 Stake, Bottom

Metalworking: advanced

4530 Stake, Candle mold

General Shop

Metalworking: beginning, advanced

4535 Stake, Conductor

Metalworking: advanced

4540 Stake, Coppersmith square

General Shop

4545 Stake, Double seaming

Metalworking: advanced

4550 Stake, Grooving

Metalworking: advanced

4555 Stake, Hatchet

General Shop

Metalworking: beginning, advanced

4560 Stake, Hollow mandrel

General Shop

Metalworking: beginning, advanced

4565 Stake, Needle case

Metalworking: advanced

4570 Stake, Round head

General Shop

Metalworking: advanced

4575 Stamp, Leather

Elementary

General Shop

Following tools may be purchased singly or in sets:

Background tools (assorted)

Tap Bevelers

Pear Shaders

Turn Backs

Veiners, Barkers

Camouflage

Foxtail

Dotflare

Mulefoot

Stops

Seeder

Sun Burst

Basket Weave

Acorn

Stamp, Leather; Number (see: Die, Letter #1250; Number #1255)

4580 Stand, Auto safety (2 ton)

Auto and Power Mechanics: beginning, advanced 2 ton capacity adjustable 15"-22"; with 10" base.

4585 Stand, Auto safety (7 ton)

Auto and Power Mechanics: beginning, advanced Adjustable 20"-30".

4590 Staple Remover

General Shop

4595 Stapler, Hand

Drafting: beginning, advanced

General Shop

Graphic Arts: beginning, advanced

 $8\frac{1}{2}$ "; throat depth 4"; staples; pins; tacks; desk model; open channel load takes full strip of 210 standard staples.

4600 Stapler, Saddle

General Shop

Graphic Arts: beginning, advanced

Throat depth 8"; handles full size 11" x 17" sheets; attaches to table or bench.

4605 Stilts, Kiln

Elementary

For supporting pottery while firing and glazing; assortment #1, #2, #3, #4, #5.

4610 Stool, Instructor's

Drafting: beginning, advanced

Swivel stool; with 17" x 16" thick foam rubber seat and adjustable, padded back rest; metal seat pan; with casters; height adjustable 28" to 34"; all welded, 1" tubular steel construction with chrome plated footring; (to be used with alternate teacher's desk, standing #1165).

4615 Stool, Student's, Adjustable

Drafting: beginning, advanced

General Shop

Metalworking: beginning, advanced

14" square pressed-wooded seat with back; seat perforated for ventilation; stool is all welded non-breakable construction; legs taper out to insure against tripping; legs punched to permit 3" height adjustment; seat height without adjustment, 26"; (to be used with #4670).

or: 14" square pressed-wooded seat with back; seat perforated for ventilation; stool all welded, non-breakable construction; casters on legs; legs punched to permit 3" height adjustment; seat height without adjustment 18"; (to be used with alternate drafting table specifications #4670).

4620 Stop, Bench

General Shop

To fit 3/4" hole.

4625 Storage Unit, Clay

Ceramics: beginning, advanced

Portable; of birch plywood, lined with galvanized steel; hinged top; bottom fitted with heavy duty casters; outside dimensions 24" x 24" x $28\frac{1}{2}$ "H.

Storage Unit, Sheet plastics (see: Cabinet, Sheet plastics storage #0610).

4635 Straight Edge, Parallel ruling

Drafting: advanced

Transparent plastic edges.

4640 Strap, Battery

Auto and Power Mechanics: beginning, advanced 12"L; heavy duty.

4650 String Holder, Cone

Graphic Arts: beginning, advanced

 $2\frac{1}{2}$ lb. cord.

4655 Strip heater

Elementary

General Shop

Plastics: beginning, advanced

23" minimum length; 110V, 250 watts; switch and pilot light.

4660 Surfacer (single surface planer)

General Shop

Woodworking: advanced

12" x 5" capacity; floor model; with enclosed metal base; with infeed and speed control; with clutch; motor driven; motor: 3 HP, 60 cycles, 220V, 3-phase; with switch and overload protection.

or: 18" or 20" capacity; floor model with enclosed metal base; with infeed and speed control with clutch and motor driven; and with sectional top infeed rolls and chip breaker; motor: 5 HP, 60 cycles, 220V, 3-phase with switch and overload protection.

4665 Table, Blueprint

General Shop

24" x 60"; with drawer.

4670 Table, Dratfing

Drafting: beginning, advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

Overall size approximately 38" x 28" x 39"H; material either wood or metal; 4 post type; drafting surface maple top with zinc-plated steel end cleats, $28\frac{1}{2}$ " x $28\frac{1}{2}$ ", adjustable height with fixed reference surface 10" x $28\frac{1}{2}$ ". Board storage unit holds 6 boards up to 20" x 26", hardboard dividers, overall size approximately 11" x 28" x 23"; six-drawer storage unit for instruments and material storage, equipped with master-keyed locks, overall unit size approximately 11" x 28" x 23", all drawers 9"W x $3\frac{1}{2}$ "H x 17"L. (To be used with 4615).

or: Overall size approximately $37\frac{1}{2}$ " x 48" x 29"H; material of wood; 4 post type; drafting surface maple top with zinc-plated steel end cleats, size 36" x 48", adjustable height to 60°; six-drawer storage unit for instruments and material storage, equipped with master-keyed locks, overall unit size approximately 11" x 28" x 23", all drawers 9"W x $3\frac{1}{2}$ "H x 17"L; no board storage unit. (To be used with alternate 4615).

4675 Table, Finishing

Woodworking: beginning, advanced



 $1\frac{1}{4}$ " x 24" x 60" plywood top; covered with 22 gauge galvanized steel folded over and fastened underneath; heavy maple frame; $\frac{3}{4}$ " shelf with backstop.

4680 Table, General purpose

Graphic Arts: beginning, advanced

Table cabinet; heavy gauge steel; finished olive green or grey; hardwood top; sliding doors with nylon bearings and master-keyed cylinder lock; 30"D x 33"H in 5 or 6 foot lengths.

4685 Table, Opaquing

Graphic Arts: beginning, advanced

Beginning: adjustable light table; machine steel straight edges on 4 sides; non-glare glass; working area of 10" x 25".

Advanced: adjustable light table; 2 straight edges mounted on roller-bearing chains, right angles to each other; scales calibrated in 1/32"; 3-way flourescent light system; working area 24" x 36".

4690 Table, Overhead projector

Auto and Power Mechanics: beginning, advanced

Ceramics: beginning, advanced Drafting: beginning, advanced

Electricity-Electronics: beginning, advanced

Elementary General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

Woodworking: beginning, advanced Portable; 26"H for stand-up height operation; 1 shelf near base; electrical accessory U.L. approved, 20', #16 3-wire cord with double

receptacle; mounted on 4 casters, 2 with braking mechanism.

4695 Table, Pilot press

Graphic Arts: beginning, advanced

Holds press, type chases and supplies; top covered with stainproof micarta: 24" x 48" x 31".

4700 Table, Planning

Drafting: advanced

72" x 30" x 30"H; 1" OD cold rolled steel tubing legs with non-marring feet; steel locking device for each leg; laminated plastic top with aluminized plastic edge strip around perimeter of table top.

4705 Table, Casting

Ceramics: beginning, advanced

Top of 1" wood; crossmembers of aluminum; waste tray catches excess slip; removable for easy celaning; welded angle-iron construction; 8' x 2' x 32"H.





4715 Table, Spraying

Woodworking: advanced

Top constructed of 2" x 8" fir; glued and cut to 50" diameter; Lazy Susan bearing attached to underside; contruct two stands, one 24"H and one 8"H.

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4720 Table, Typewriter

Graphic Arts: beginning, advanced

Heavy weight table; lever control retractable casters; non-skid top; spring action drop leaves; $48\frac{1}{2}$ " x 25" x 26".

4725 Tachometer

Auto and Power Mechanics: advanced

Tach-dwell meter; 6-12-24V; 0-5000 RPM; 2 ranges; scales for 4, 6 and 8 cylinder engines.

4730 Tanks, Film development

Graphic Arts: beginning, advanced

For roll film from 16mm to 120-620 size; reel adjustable for various sizes and with ratchet feature.

4735 Tank, Agitated storage

Ceramics: beginning, advanced

Made of heavy carbon steel, porcelain lined; with agitator shaft and stirrers of stainless steel; tank size 42" x 42"; 50 RPM stirrer shaft; 1 HP motor; approximately 240 gal. capacity.

4740 Tank, Hot boiling

Auto and Power Mechanics: advanced

4745 Tank, Parts cleaning, Solvent

Auto and Power Mechanics: beginning, advanced Fusible link safety cover; flexible metal flush hose; 1/3 HP; pumping unit @ 65 gal./min.; oil filter; removable sludge trays off-on pilot light; casters; 40 gal. capacity.

4750 Tank, Storage, Slip

General Shop

4755 Tap and Die, Machine screw (set)

Metalworking: beginning, advanced Including the following sizes: 4×36 , 6×32 , 8×32 , 10×24 , 10×32 , 12×24 , $\frac{1}{4} \times 20$.

4760 Tap and Die, NC (U.S. standard) (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

1 each—taper, plug, and bottoming tap plus one die in following

ERIC

sizes: $\frac{1}{4}$ " x 20, $\frac{5}{16}$ " x 18, $\frac{3}{8}$ " x 16, $\frac{7}{16}$ " x 14, and $\frac{1}{2}$ " x 13; complete with die stock and tap wrench.

4765 Tap and Die, NF (S.A.E.) (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

1 each—taper, plug, and bottoming tap plus one die in following sizes: $\frac{1}{4}$ " x 28, $\frac{5}{16}$ " x 24, $\frac{3}{8}$ " x 24, $\frac{7}{16}$ " x 20, and $\frac{1}{2}$ " x 20;

complete with die stock and tap wrench.

4770 Tap and Die, Pipe (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

Metalworking: beginning, advanced

Tap, die, and reamer for following pipe sizes: 1/8", 1/2", 3/4", and 1".

4775 T Bevel, Sliding

Drafting: advanced

Elementary

Plastics: beginning, advanced

Woodworking: beginning, advanced

6"; iron handle.

4780 Template, Architectural

Drafting: advanced

House-plan and plumbing template; scale: $\frac{1}{4}'' = 1'0''$ and $\frac{1}{8}'' = 1'0''$; size 5" x 7" x .030; non-discoloring plastic.

4785 Template, Electronic

Drafting: advanced

NASA standard electrical drafting templates; size $5\frac{1}{4}$ " x 8" x .060; non-discoloring plastic.

4790 Template. Isometric circle

Drafting: advanced

38 ellipses from 1/8" to 1.9/16"; .040 thick; non-discoloring plastic.

4795 Template, Isometric circle (large)

Drafting: advanced

25 ellipses $1\frac{1}{2}$ " to 2" in increments of $\frac{1}{8}$ "; 2" to 7" in increments of $\frac{1}{4}$ "; .080 thick; non-discoloring plastic.

4800 Template, Large circle

Drafting: advanced

Circle and radius master; 36 circles from 3/64'' to 1'' in diameter; with 24 semi-circles ranging from 1'' diameter to $7\frac{1}{2}''$ diameter; size $7\frac{1}{2}'' \times 10'' \times .080$; non-discoloring plastic.

4805 Template, Nuts and bolts

Drafting: advanced

Contains elevation views of socket head, flat head, and fillister head, cap screws, American standard hex head and bolts, and socket head stripper bolts including end screws; drill point and countersink cut out for angles of 82°, 90° 100°, 118°, and 135°; size 5" x 10-7/16" x .030"; non-discoloring plastic.

4810 Tension Tester, Core

Metalworking: advanced

4815 Tester, Battery cell

Auto and Power Mechanics: beginning, advanced (Battery-Starter Tester) ammeter range 0-400 Amps; 3 Voltmeter scales, 0-16, 0-8, 0-4 V; 6 and 12 V systems; with test leads and stand.

4920 Tester, Coil and condenser

Auto and Power Mechanics: advanced 6-12-24 V; portable; fused.

4825 Tester, Distributor

Auto and Power Mechanics: advanced

1/4 HP distributor drive operating from idle to 6000 RPM; 12" diameter strobe light rings graduated in divisions of 1°; precision meters (2% full deflection); tachometer 0-3000 distributor RPM; dwell meter 0-45° for 6 and 8 cylinder distributor, 0-90° for 4 cylinder distributors; vacuum pump (up to 21"H); condenser tester.

4830 Tester, Guided bend

Plastics: advanced

Maximum rated ram force 10,000 lbs.; stroke 5"; capacity $\frac{3}{8}$ " x 2" cross section; ram radius $\frac{3}{4}$ " (cyanided); refer diameter $1\frac{1}{2}$ " (cyanided).

4835 Tester, Hardness

Metalworking: advanced

Plastics: advanced

Bench; Rockwell system of regular hardness tests 10 to 150 kg. and

superficial tests 3 to 45 kg.

Plastics: requires M scale—1/4" ball, 10-100 kg loads; R scale, 1/2" ball, 10-60 kg loads.

4840 Tester, Neon lamp type

General Shop 90-550V AC-DC.

4845 Tester, Radiator pressure

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Auto and Power Mechanics: beginning, advanced Plunger action; to fit all cars; test radiator caps and cooling system;

heavy die cast body; steel latching gears; high quality pump; easy to read gauge.

4850 Tester, Transistor

Electricity-Electronics—beginning, advanced Short, leakage, and forward current tests.

4855 Tester, Tube

Electricity-Electronics: beginning, advanced

General Shop

Mutual conductance type.

4860 Testing Machine, Tensile

Plastics: advanced

Maximum rated capacity 40,000 lbs.; stroke 4"; tow socket $1\frac{1}{2}$ "D x $1\frac{3}{4}$ "W; handle 18"L toggle action.

4865 Testing Machine, Universal

Plastics: advanced

Tests properties of tensile, compression, shear, transverse, hardness, and modulus of elasticity; materials: metal, wood, plastics, ceramics, cements, fastners, and fabrics; 5" ram travel; 12" precision read-out gauge; overall 34"L x 12"W x 11"H; maximum rated capacity 40,000 lbs.; maximum specimen size (with standard jaws): $\frac{5}{8}$ " x $\frac{11}{2}$ " x $\frac{10}{5}$ "; jaw socket $\frac{11}{2}$ "D x $\frac{13}{4}$ "W at front 30° included angle x 3"L; maximum clearing width between jaws $\frac{6}{8}$ "; handle $\frac{18}{8}$ "L with toggle action; material of welded steel; self-containing hydraulic ram unit.

4870 Thermoforming Press, Vacuum (large)

Plastics: beginning, advanced

Approximate maximum sheet size 24" x 36"; 220V, 3-phase heaters; vacuum pump and surge tank minimum capacity 5 gal.; automatic or semi-automatic cycles.

4875 Thermoforming Press, Vacuum (medium)

General Shop

Plastics: advanced

Approximate maximum sheet size 16" x 16"; 220V, single-phase heater; vacuum and pressure pump and tanks.

4880 Thermoforming F:ess, Vacuum (small)

Elementary

Plastics: beginning, advanced

Approximate maximum sheet size 8" x 8"; 110V heater; manual vaccum pump.

4885 Thermometer, Photographic

Graphic Arts: beginning, advanced

Tank and tray thermometer; pivoted spring clip; scale from 30°F to 140°F, in 2 increments; 4%"L.



4890 Threading Tool, Lathe

Metalworking: advanced For formed cutters; V-thread

4895 Throwing Ribs, Wood (set)

Ceramics: beginning, advanced Hand formed, rubbed walnut; with finger holes for easy handling; 3 shapes.

4900 Timer, Interval

Plasics: beginning, advanced 120 minute capacity by seconds.

4905 Timer, Photographic (electric)

Graphic Arts: beginning, advanced Luminous universal timer; marked with phosphorescent numbers; time from 1 sec. to 60 min.; automatically controls enlarger exposures; built-in electric buzzer; outlet receptacle is controlled by selector switch, makes or breaks circuit at zero. Properly grounded

for safe use.

4910 Timer, Photographic (spring wound)

Graphic Arts: beginning, advanced 30 minute photographic bell timer; times in minutes up to 30 minutes.

4915 Tongs, Blacksmith, Curved lip

General Shop Metalworking: beginning, advanced To hold rounds. 20"L.

4920 Tongs, Crucible

General Shop

17"L.

4925 Tongs, Pick-up

General Shop

Metalworking: beginning, advanced Flat lips, 24"L.

4930 Tool, Drag link and shock arm

Auto and Power Mechanics: advanced

4935 Tool Holder, Lathe (left hand)

Auto and Power Mechanics: beginning, advanced Metalworking: beginning, advanced To fit tool post of lathe orderd.

4940 Tool Holder, Lathe (right hand)

Auto and Power Mechanics: beginning, advanced Metalworking: beginning, advanced To fit tool post of lathe ordered.

ERIC

4945 Tool Holder, Lathe (straight)

Auto and Power Mechanics: beginning, advanced

Metalworking: beginning, advanced To fit tool post of lathe ordered.

4950 Torch, Gas

General Shop

Metalworking: beginning, advanced

Natural gas and air. (Must conform to ASA standards.)

4955 Torch, Propane (kit)

Auto and Power Mechanics: Advanced

General Shop

With assorted tips for heating and soldering.

4960 Tracer

General Shop

Stylus for leather.

4965 Trammel Points

General Shop

Metalworking: beginning, advanced

Woodworking: beginning, advanced

Hardened points plus pencil holder to be attached to straight stick.

4970 Transformer, Bell

General Shop

Primary: 110-115V AC; Secondary: 6, 12, and 18V.

4975 Transformer, Step-down

Auto and Power Mechanics: advanced

4980 Transformer, Step-up

Auto and Power Mechanics: advanced

Transmission Maintenance Set (See: Automatic Transmission Tool #0075).

4985 Tray, Photographic

Graphic Arts: beginning, advanced

Hard rubber; non-corrosive; slip-proof; specially reinforced rims and bottoms; used interchangeably for all photographic pocesses without danger to prints or negatives; 11" x 14".

4990 Triangle, 30°-60° (8")

Drafting: beginning

General Shop

Graphic Arts: beginning, advanced Woodworking: beginning, advanced

Acrylic plastic; .080" thick; with finger lifts.

4995 Triangles, 30°-60° (10" and 12")

Drafting: advanced

One each 10" and 12"; acrylic plastic; .080" thick; with finger lifts.

5000 Triangle, 45° (6")

Drafting: beginning

Graphic Arts: beginning, advanced

<u>Drafting</u>: acrylic plastic: .080" thick; with finger lifts. Graphic Arts: stainless steel; solid center with lifting knob.

5005 Triangle, 45° (8")

Drafting: advanced

General Shop

Woodworking: beginning, advanced

Acrylic plastic; .080" thick; with finger lifts.

5010 Triangle, 45° (12")

Drafting: advanced

Acrylic plastic; .080" thick; with finger lifts.

5015 Triangle, Adjustable (10")

Drafting: advanced

Transparent acrylic plastic; .100" thick; graduated to $\frac{1}{2}$ °; numbered every 10° from 0° to 45°; magnifier setting.

5020 Triangle, Chalkboard, 30°-60°

Drafting: beginning, advanced

General Shop

24" hardwood; with magnets, holding knob and hanger hole.

5025 Triangle, Chalkboard, 45°

Drafting: beginning, advanced

Hardwood; with magnets, holding knob and hanger hole.

5030 Triangle, Kiln

Elementary

For supporting pottery when firing and glazing; assortment #1, #2, #3, #4, #5.

5035 Trimmer, Paper

Graphic Arts: beginning, advanced

Guides adjust to any position; blade hook for safety; ruled in $\frac{1}{2}$ " squares; 24" x 24" table.

5040 Trivets

Ceramics: beginning, advanced

General Shop

Heat resistant; stainless steel; two types: one complete in itself, other is bolted to firing rack.

5045 Trowel, Foundry

General Shop

Metalworking: advanced

5050 Trowel, Square, Molder's

General Shop

5055 Trowel, Taper (heart) and leaf, Molder's

General Shop

5060 Truck, Bindery

Graphic Arts: advanced

All metal; 4 pivoting shelves; ball bearing rubber wheels for complete

maneuverabi'ity; 28" x 40".

5065 Truck, Welding cylinder

Auto and Power Mechanics: advanced

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Size appropriate to gas bottle size.

5070 T Square

Drafting: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Woodworking: beginning, advanced

Fixed head; hardwood head and blade; with transparent plastic edges along upper and lower blade; with hang hole; mimimum size 24".

5075 Tumbler, Lapidary

Elementary

Steel drum; 25 lb. capacity; 1/4 HP motor; 115V AC, 60-cycle, single-

phase; complete with cord and plug.

Turning Tool (set) (See: Wheel Turning Tool #5245)

Turning Tools, Metal lathe (set) (See: Tool Holder, Lathe #4935-

#4945).

5080 Tweezers, Bevel point

General Shop

5085 Tweezers, Type

ERIC

General Shop

Graphic Arts: beginning, advanced

41/2"; fine point; nickel plated.

5090 Type (assorted sizes and styles—see listing—next page)

General Shop

Graphic Arts: beginning, advanced

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FONTS OF FOUNDRY TYPE, SPACES AND QUADS RECOMMENDED FOR GRAPHIC ARTS

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Spaces & Quads	No. of Fonts	10	10	01	2	2	12	12	12		12	٤	2	10	2						
	Decorative					7	2	7	2		2		2	2	2						
	Script						7	2			6	•	2	0	2						
Sans Serif	Italic	2	C	1	7	2	2	2	2		6	,	2	2	2						
Sans	Reg.	2	C	4	7	7	7	2	2		C	7	8	7	2	"					
Sauare Serif	Italic	2	1	7	2	2	7	2	2		C	7	8	2	0	•					
Sauer	Reg.	0	1 0	الا	2	7	2	2	7		C	7	8	2	0	ا.	-	1	1	1	
	Text					0	8	2	2		,	7									
	Mod. It	C	7	2	2	2	ņ	2	2		ļ	2									
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Gemod	OS Italic	,	7	2	0	2	0	1	10	1		Ν									
	Oldstyle		2	2	7	2	0	100	1 0	1		8	0	1 0	7	2	1	1	-	-	
	Size	3	6 pt.	æ	10	12	14	10	20	17	30	36	av.	F	7/	Wood	8 line	10	12	15	

Plus 1 font per student of monotype, for basic instruction.

FONTS OF FOUNDRY TYPE, SPACES AND QUADS RECOMMENDED FOR GENERAL SHOP

	spend	onts				
•	Spaces & Quads	No. of	2			
		Script Decorative No. of Fonts				
		Script				
	Sans Serif	Reg. Italic	1			
	Sans	Reg.	1			
	s Serif	Reg. Italic	-			
	Square Serif	Reg.	-			
		Text				
		Mod. It.	1		•	
		Mod.	-			
	Roman	Oldstyle OS Italic Mod. Mod. It.	-	•		
		Oldstyle	-	•		
		Size	0.	2		

5095 Typesetter, Linecasting

Graphic Arts: advanced

Tape operated; single distribution; 3 main magazines; selectro-matic quadder, mold cooler and metal feeder; 220V AC.

5100 Typesetter, Photo-headsetter

Graphic Arts: advanced

Sets type and lettering to 175 point sizes; projection system permits 200% enlargement to 400% reduction from a single film font; develops inside the machine; condense, expand, blackslant or italicize to varying degrees; 2800 variations in sizes, slants, and proportions are possible from a single film font.

5105 Typewriter, Electric

Graphic Arts: advanced

Writing line 13"; paper width $15\frac{1}{2}$ "; suitable for all office and printing needs; stationary carriage and removable ball of type that moves across the page; selection of different type faces available.

5110 Typewriter, Standard

Graphic Arts: beginning

Standard keyboard; pica or elite type (school should specify size and type face); 12" carriage.

Vacuum Forming Machine (See: Thermoforming Press, Vacuum (small) #4880).

5115 Vacuum Printing Frame

Graphic Arts: advanced

 $17" \times 21"$ working area; vacuum pump; 110V, 60-cycle motor; gauge; vacuum release valve.

Valve Seat Grinder (See: Grinder, Valve #1995)

Valve Refacer (See: Refacer, Valve #3615)

5120 V Block and Clamps (set)

Metalworking: beginning, advanced Plastics: beginning, advanced

5125 Veiner, Leather stamp

Elementary

5130 Vise, Angle, Drill

Metalworking: beginning, advanced

Capacity of opening 21/4" (beginning); capacity of opening 3" (advanced).

5135 Vise, Bench, Drill

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

Capacity of opening 3".



5140 Vise, Machinist's bench

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced Swivel base; 3" jaw; 43/4" opening.

5145 Vise, Mitre

Woodworking: beginning, advanced

5150 Vise, Pin (set)

Metalworking: beginning, advanced Range 0" to .125" minimum.

5152 Vise, Pipe

Metalworking: beginning, advanced

5155 Vise, Sheet Metal

General Shop Smooth jaw; 3" opening.

5160 Vise, Swivel

General Shop 2" jaw; rapid positioning.

5165 Vise, Woodworker's

Elementary
General Shop

Portable; clamp-on type; for miscellaneous use other than regular work bench vise.

5170 Ware Truck

Ceramics: beginning, advanced Welded angle-iron construction; rubber-tired swivel casters; 8 shelves

22" x 28".

5175 Wedging Boards

Ceramics: beginning

22" x 15" x 14"H; or 12" x 15" x 2"T hard plaster bat.

5180 Wedging Table

Ceramics: beginning, advanced

General Shop

5185 Welder, Arc

Auto and Power Mechanics: advanced

General Shop

Metalworking: beginning, advanced

Plastics: advanced

AC/DC. (Must conform to ASA standards.)

ERIC Foultest Provided by ERIC

5190 Welder, MIG

Metalworking: advanced

5195 Welder, Spot

Electricity-Electronics: beginning, advanced

Metalworking: beginning, advanced

5200 Welder, Spot (portable)

General Shop

220V; 10' power cable; with standard tongs.

5205 Welder, TIG

Metalworking: advanced

Welding Helmet (See: Helmet, Welding #2145)

5220 Welding Outfit, Oxy-acetylene

Auto and Power Mechanics: advanced

General Shop

Metalworking: beginning, advanced

Plastics: advanced

Including regulators, torch, set of tips, cutting attachment and set of

tips: twin hose.

5225 Welding Screen, Portable

Auto and Power Mechanics: advanced

General Shop

Back 6' x 6'; wings 3'. Tubular frame construction; replaceable

fireproof curtains. Hinged wings.

5230 Welding Unit, Plastics

Plastics: beginning, advanced

Hand welder and tacker; 110V; assorted tips; air regulator and pres-

sure gauges; carrying case.

5235 Wheel Alignment Set

Auto and Power Mechanics: advanced

Gauges for: all magnetic—toe in, caster angle, camber angle, Easter-

king pin angle; turntable set; trammel bar; tirescriber; etc.

5240 Wheel Balancer

ERIC

Auto and Power Mechanics: advanced

(On the car); 11/4 HP, 7500 RPM, 110V AC motor; spins wheel over 100 MPH; quick action brake; foot motor control; wheel adapter for

13"-16" wheels.

Wheel Dresser (see: Dresser, Abrasive wheel #1320)

5245 Wheel Turning Tool (set)

Ceramics: beginning, advanced

Set of 6 different shapes for working on the potter's wheel for turning

down plaster or clay pieces; length of tools 91/4".

5250 Wire Cutter and Stripper

General Shop

5255 Wrench, Adjustable end (6")

Auto and Power Mechanics: beginning, advanced Electricity-Electronics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced Plastics: beginning, advanced

3/4" maximum opening; forged steel; satin-chrome finish.

5260 Wrench, Adjustable end (8")

Auto and Power Mechanics: beginning, advanced

Elementary
General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning

15/16" maximum opening; forged steel; satin-chrome finish.

5265 Wrench, Adjustable end (10")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: advanced Plastics: beginning, advanced

11/8" maximum opening; forged steel; satin-chrome finish.

5270 Wrench, Adjustable end (12")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: advanced

Plastics: beginning, advanced

1-5/16" maximum opening; forged steel; satin-chrome finish.

5275 Wrench, Adjustable end (monkey)

Auto and Power Mechanics: beginning, advanced

5280 Wrench, Allen key (hex) (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

Set including 11 standard sizes, #11/2·#12.

ERIC

5285 Wrench, Box (set)

Metalworking: beginning, advanced

Range of openings: 3/8"-1"; satin-chrome finish.

5290 Wrench, Combination box and open end (set)

Auto and Power Mechanics: beginning, advanced

General Shop

Range of openings: 3/8"-1"; satin-chrome finish.

5295 Wrench, Combination box and open end (metric) (set)

Auto and Power Mechanics: beginning, advanced Set of 10; sizes: 6, 8, 9, 10, 12, 13, 14, 15, 17, 19mm; 12 point

box-end opening; for foreign cars; satin-chrome finish.

5300 Wrench, Deep socket (3/4" drive) (set)

Auto and Power Mechanics: beginning, advanced 8-6 point sockets; sizes $\frac{3}{8}$ "-9/16" are 1 $\frac{3}{4}$ "L; sizes $\frac{5}{8}$ "-13/16" are 2½"L; incremented by 16ths; satin-chrome finish.

5305 Wrench, Deep socket (1/2" drive (set)

Auto and Power Mechanics: beginning, advanced 8-12 point sockets; $3\frac{1}{4}$ "L; sizes $\frac{1}{2}$ "-15/16"; incremented by 16ths; satin-chrome finish.

5310 Wrench, Drain plug

Auto and Power Mechanics: beginning, advanced Contains common male and female plug sizes for crankcase, transmission, and differential; satin-chrome finish.

5315 Wrench, Flare nut (set)

Auto and Power Mechanics: advanced Combination open end and hex flare nut-wrenches; sizes: %", 7/16", $\frac{1}{2}$ ", 9/16", $\frac{5}{8}$ "; satin-chrome finish.

Wrench, Ignition (set) 5320

Auto and Power Mechanics: beginning, advanced

6 open end wrenches; sizes: 15/64", 1/4", 9/32", 5/16", 11/32", 3%"; with kit bag.

5325 Wrench, Lug

Auto and Power Mechanics: beginning, advanced

Wrench, Monkey (see: Wrench, Adjustable end (monkey) #5275)

Wrench, Nutdriver (set) 5330

Electricity-Electronics: beginning, advanced

General Shop

Set of 8 drivers; sizes: 3/16'', 1/4'', 9/32'', 5/16'', 11/32'', 3/8'', 7/16", $\frac{1}{2}$ "; color coded handles.

5335 Wrench, Open end (set)

Electricity-Electronics: beginning, advanced

General Shop

Metalworking: beginning, advanced Woodworking: beginning, advanced

Double end wrenches; sizes: 1/4"-1"; satin-chrome finish.

5340 Wrench, Pipe (10")

Auto and Power Mechanics: beginning, advanced

General Shop

Metalworking: beginning, advanced

Heavy duty malleable frame; steel alloy jaws.

5345 Wrench, Pipe (14")

Metalworking: advanced

Heavy duty malleable frame; steel alloy jaws.

5350 Wrench, Pipe (18")

Auto and Power Mechanics: advanced

General Shop

Metalworking: advanced

Heavy duty malleable frame; steel alloy jaws.

5355 Wrench, Socket (1/4" drive) (set)

Auto and Power Mechanics: beginning, advanced

9-6 point standard sockets, sizes: 3/16"-1/2" by 32nds; 2-8 point standard sockets, 1/4" and 5/16"; 1 spinner handle; 2 extensions, 2" and 6"; 1 ratchet handle; 1 universal joint; satin-chrome finish.

5360 Wrench, Socket (¾" drive) (set)

Auto and Power Mechanics: beginning, advanced

Electricity-Electronics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced Metalworking: beginning, advanced

Plastics: beginning, advanced

Woodworking: beginning, advanced

10 piece set; 7 standard sockets, sizes: 3/8"-3/4" by 16ths; 1 flex handle 81/2"L; 1 extension 3"L; 1 reversible ratchet handle 7"L; with

metal box; satin-chrome finish.

5365 Wrench, Socket (1/2" drive) (set)

Auto and Power Mechanics: beginning, advanced

General Shop

Graphic Arts: beginning, advanced

Metalworking: beginning, advanced

9 piece set; 7 standard sockets, sizes: 3/2"-3/4" by 16ths; 1 extension 5"L;1 reversible ratchet handle 101/4"L; with metal box; satin-chrome

finish.

ERIC

5370 Wrench, Socket (metric) (set)

Auto and Power Mechanics: advanced

1/2" drive for foreign cars; 9-12 point sockets, sizes: 9mm to 22mm; 2 extensions, 6" and 10"; 1 speeder handle 18"L; 1 flex handle 15"L; 1 crossbar; 1 ratchet handle 93/4"L; satin-chrome finish.

5375 Wrench, Socket, Flex handle (%" drive)

Auto and Power Mechanics: advanced 71/2"L; for use with 3/8" drive socket wrench set; satin-chrome finish.

5380 Wrench, Socket, Flex handle (1/2" drive)

Auto and Power Mechanics: advanced

16"L; for use with 1/2" drive socket wrench set; satin-chrome finish.

5385 Wrench, Socket, Handle extension (%" drive) (4")

Auto and Power Mechanics: beginning, advanced For use with %" drive socket wrench set; satin-chrome finish.

5390 Wrench, Socket, Handle extension (3/2" drive) (8")

Auto and Power Mechanics: beginning, advanced For use with %" drive socket wrench set; satin-chrome finish.

5395 Wrench, Socket, Handle extension (%" drive) (set)

Auto and Power Mechanics: beginning, advanced
Set of 4; sizes: 3", 6", 10", 20"; for use with %" drive socket wrench
set; satin-chrome finish.

5400 Wrench, Socket, Handle extension (1/2" drive) (3")

Auto and Power Mechanics: beginning, advanced
For use with \(\frac{1}{2}\)" drive socket wrench set; satin-chrome finish.

5405 Wrench, Socket, Handle extension (1/2" drive) (8")

Auto and Power Mechanics: beginning, advanced For use with $\frac{1}{2}$ " drive socket wrench set; satin-chrome finish.

5410 Wrench, Socket, Handle extension (1/2" drive) (set)

Auto and Power Mechanics: beginning, advanced
Set of 4; sizes: 3", 6", 10", 20"; for use with ½" drive socket wrench set; satin-chrome finish.

5415 Wrench, Socket, Reversible ratchet handle (1/4" drive)

Auto and Power Mechanics: beginning, advanced Included in Wrench, Socket (1/4" drive) (set) #5360. May be ordered separately; satin-chrome finish.

5420 Wrench, Socket, Reversible ratchet handle (%" drive)

ERIC

Auto and Power Mechanics: beginning, advanced General Shop

Included in Wrench, Socket (%" drive) (set) #5365. May be ordered separately; satin-chrome finish.

5425 Wrench, Socket, Reversible ratchet handle (1/2" drive)

Auto and Power Mechanics: beginning, advanced

General Shop

Included in Wrench, Socket (1/2" drive) (set) #5370. May be ordered separately; satin-chrome finish.

5430 Wrench, Socket, Speed handle (1/4" drive)

Auto and Power Mechanics: beginning, advanced 16"L; for use with 1/4" drive socket wrench set; satin-chrome finish.

5435 Wrench, Socket, Speed handle (%" drive)

Auto and Power Mechanics: beginning, advanced 16%"L; for use with %" drive socket wrench set; satin-chrome finish.

5440 Wrench, Socket, Speed handle (1/2" drive)

Auto and Power Mechanics: beginning, advanced 18"L; for use with $\frac{1}{2}$ " drive socket wrench set; satin-chrome finish.

5445 Wrench, Socket, Universal joint attachment (1/4" drive) (set)

Auto and Power Mechanics: advanced For use with 1/4" drive socket wrench set; satin-chrome finish.

5450 Wrench, Socket, Universal joint attachment (%" drive) (set)

Auto and Power Mechanics: beginning, advanced For use with 3/8" drive socket wrench set; 1 1/8"L; satin-chrome finish.

5455 Wrench, Socket, Universal joint attachment (1/2" drive) (set)

Auto and Power Mechanics: beginning, advanced For use with 1/2" drive socket wrench set; 2-5/16"L; satin-chrome finish.

5460 Wrench, Tappet (set)

Auto and Power Mechanics: beginning, advanced Set includes 2 each: 7/16'' and 1/2'', 12'' and 9/16'', 5/8'' and 11/16''.

5465 Wrench, Torque (%" drive)

Auto and Power Mechanics: beginning, advanced

General Shop

Flexible beam; job molded aluminum handle; easy to read scale; measures foot-pounds or inch-pounds in either direction; 150 ft.-lbs. range in 10 ft.-lbs. divisions or 150 in.-lbs. range in 5 in.-lbs. divisions.

5470 Wrench, Torque (1/2" drive)

Auto and Power Mechanics: beginning, advanced Flexible beam; job molded aluminum handle; easy to read scale; measures foot-pounds in either direction; 200 ft.-lbs. range in 10 ft.lbs. divisions.

Wrench, Vise-grip (see: Pliers, Vise-grip #3170)

AMERICAN STANDARDS FOR SAFETY

(These standards are also included in the preceding general list)

(Special price of complete set, \$190.00)

A2.1-1956 Fire Tests of Building Construction and Materials, Methods of (ASTM	1.00
E119-55; NFPA 251-1955)	1.00
252-1958) Method of Test	
252-1958)	1.00
for (ASTM E84-61; UL 723-1960; NFPA 255-61) A2.6-1963 Fire Tests of V/indow Assemblies, Methods of (ASTM E163-60T; UL 9-62) A2.6-1963 Fire Tests of V/indow Assemblies, Methods of (ASTM E163-60T; UL 9-62) A2.6-1963 Fire Tests of Assident Prevention in Construction	1.00
A2.6-1963 Fire Tests of Window Assemblies, Methods of (ASTM LIOS-001) Out of	Print
A2.6-1963 Fire Tests of Window Assemblies, Methods of (ASTM L108 Out of I A10.1-1951 Manual of Accident Prevention in ConstructionOut of I	
A10 2-1944 †Building Construction, Salety Code for Construction	3.50
1963) of Section 10.	
A10.4-1963 †Workmen's Hoists, Safety Requirements for (Revision of Godden	2.00
Part XI of A10.2-1944) *A11.1-1965 Industrial Lighting, Practice for (IES RP 7-1965) *A11.1-1965 Industrial Lighting, Pailings, and Toe Boards, Safety Code for	.80
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*A11.1-1965 Industrial Lighting, Practice for (ILS Rt / 12-1932 †Floor and Wall Openings, Railings, and Toe Boards, Safety Code for	1.50
A12-1932 †Floor and Wall Openings, Railings, and The Boards, Solesy Code for A13.1-1956 Identification of Piping Systems, Scheme for the	2.50
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*A17.1-1965 Elevators, Dumbwaiters, and Moving Walls, Services, and A17.1.13-1962)	4.00
	.50
*A17.2a-1965 Addenda to A17.2-1960, sold separately	2.00
A23.1-1962 School Lighting, Guide for (IES RF3-1902)	.50
	1.50
A85.1-1956 Protective Lighting, Practice for (ILS to 1956) Manlifts, Safety Code for	3.75
	2.00
Physically Handicap ped, Specifications for	
Physically Handicapped, Specifications for All 19.1-1963 Plumbing, Heating, and Electrical Systems in Mobile Homes, Installa-	1.00
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B7.1-1964 Use, Care, and Protection of Abrasive Wheels, Safety Code for the	1.00
B1.1-1960 †Power Presses, Safety Code for	4.00
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#B31.3a-1964 Addenda to B31.3-1962, sold separately) 4 00
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▲, not yet available; †, quantity prices apply; ★, approved since last price list; R, reaffirmed ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



★B31.4a-1965 Addenda to B31.4-1959, sold separately	
B31.5-1962 Refrigeration Piping, with addenda B31.5a-1965	4.00
★B31.5a-1965 Addenda to B31.5-1962, sold separately	
B31.8-1963 Gas Transmission and Distribution Piping Systems, with addenda B31.8a-1965	4.00
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★B57.1-1965 Compressed Gas Cylinder Valve Outlet and Injet Connections (CGA	2.00
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B65.1-1954 †Controls and Signaling Devices for Graphic Arts Presses, Safety Code	0.00
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B71.1-1964 †Power Lawn Mowers, Safety Specifications for	2.00
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B77.1a-1963 †Addenda to B77.1-1960, sold separately	
★B77.1b-1965 †Addenda to B77.1-1960, sold separately	
B97.1-1963 Household Refrigerators and Freezers, Safety for (UL 250-April, 1963)	.60
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★C1-1965 National Electrical Code (NFPA 70-1965)	1.00
• C2 — National Electrical Safety Code (NBS Handbook H30):	
C2.1-1941 (R1947) Installation and Maintenance of Electrical Supply Stations,	
Safety Rules for the (NBS Handbook H31-1940)	
C2.2-1941 (R1947)—Revised and replaced by C2.2-1960	
C2.3-1941 (R1947) Installation and Maintenance of Electric Utilization Equipment,	2.25
Safety Rules for the (NBS Handbook H33-1940)	
C2.4-1939 (R1947) Operation of Electric Equipment and Lines, Safety Rules for the	
(NBS Handbook H34-1938)	
C2.5-1940 (R1947) Radio Installations, Safety Rules for (NBS Handbook H35-1939)	
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★C2.2a-1965 Supplement No. 1 to C2.2-1960, sold separately	
★C5.1-1965 Lightning Protection Code (NFPA No. 78-1965)	.75
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C33.2-1956 Transformer-Type Arc-Welding Machines, Safety Standard for (UL 551-	
October-1952)	.75
C33.3-1957 Cord Sets and Power-Supply Cords, Safety Standard for (UL 817-	., 5
December 1955)	Drint
December-1955) Out of C33.4-1958 Specialty Transformers, Safety Standard for (UL 506-October-1952)	71111L
C32 F.10F6 Wire Connectors and Coldering Luga Colon Chanderd for (11, 496	./5
C33.5-1956 Wire Connectors and Soldering Lugs, Safety Standard for (UL 486-	
February-1953)	.75
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C33.11-1964 Electric Heating Appliances, Safety Standard for (UL 499-June-1962)	.75
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★C33.17-1965 Edison-Base Lampholders, Requirements for (UL 496 May 1964)	
★C33.18-1965 Cord Reels, Requirements for (UL 355 April-1964)	
★C33.19-1965 Electrically Illuminated Frames (UL 368 February-1957)	$\overline{\blacktriangle}$

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C33.20-1965 Rosettes, Requirements for (UL 351 October-1952)	A
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I6 2-1950 (R1962) Rubber Insulator Hoods (ASTM D1049-59)\	i
J6.4-1950 (R1962) Rubber Insulating Blankets (ASTM D1048-59)	ľ
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and Consolidation of J6.6-1962 (ASIM D120-591) and J6.8-1962 (ASIM	1.00
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L18.29-1945 †Chemical-Resistant Gloves	Out of Frint
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Safety Rules for (BMIC 8227) M11.1-1960 †Wire Ropes for Mines, Specifications for and Use of	3.50 Stairs for
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P1.1-1963 †Pulp and Paper Mills, for Safety in	2.00
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S3-W-39 †The Effects of Shock and Vibration on Man	
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covers a very broad scope. It deals with three problems: (1) the mination of the structure and properties of the human body cor	e deter-

This report, a review of the effects of shock and vibration on man, covers a very broad scope. It deals with three problems: (1) the determination of the structure and properties of the human body considered as a mechanical as well as a biological system; (2) the effects of shock and vibration forces on this system; and (3) the protection required by the system under various exposure conditions and the means by which this protection is to be achieved. ASA Sectional Committee on Bioacoustics, S3, recommends dissemination of the report as pertinent background and reference material on human vibration research, until such time as more definitive guidance on permissible vibration exposures can be provided through a standard. Fifty-six pages, $8\frac{1}{2} \times 11$ in., 44 figures, 5 tables, paper cover.

X2.5.17-1954 †Maximum Electrical Leakage	of Dictating Machines	1.00
Z2.1-1959 †Head, Eye, and Respiratory Pro	ection, Safety Code for	. 3. 5 0

Z2 Report—The Spectral-Transmissive Properties of Plastics for Use in Eye Protection

48-page, 8½ x 11 inch, 106 charts, 4 tables, heavy paper cover. This report was prepared by a subcommittee on Transmissive Properties of Plastics, and contains ultraviolet, luminous and infrared spectral-transmissive properties and other characteristic data on many of the presently available types of plastics suitable for use in protecting the eyes in industrial and certain other operations.

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and Ventilation of Spray Finishing Operations,	3.00
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710.1 1061 Installation and Operation of Pulverized-Fuel Systems, Standard for the	.60
(NFPA No. 60-May-1961)	
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Z12.3-1962 Flour and Feed Mills, Code for the Prevention of Dust Explosions in	.6 0
Z12.4-1959 Terminal Grain Elevators, Code for the Prevention of Bust Explosions	.50
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Explosions in (NFPA No. 653-June-1959)	
Z12.9-1959 Spice Grinding Plants, Code for the Prevention of Dust ignitions with	.40
Aluminum Powder Code for the Prevention of Dast	.50
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Z12.13-1959 Country Grain Elevators, Code for the Prevention of Dust ignitions in	.40
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The 15 to 50 Marrosium Bourder or Dust Code for Explosion and Fire Protection in	40
Diame Deaducing or Mandling (NFPA NO. 652-June-1939)	
Z12.16-1963 Plastic Industry, Code for the Prevention of Dust Explosions in the	
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Explosions in (NFPA No. 657-June-1953) Z12.19-1963 Aluminum, Code for the Processing and Finishing of (NFPA No.	
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Z12.20-1962 Woodworking and Wood Flour Manufacturing Plants, Gode for the Fre-	. .6 0
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ciples for the (NFPA No. 63-1964)	1
Other Agricultural Products (NFPA No. 66-1964)	.60

Z16.1-1954 (R1959) †Recording and Measuring Work Injury Experience, Method of Z16.2-1962 †Method of Recording Basic Facts Relating to Nature and Occurrence	•
of Work Injuries	
May-1957) Z21.30-1964 Gas Appliances and Gas Piping, Installation Requirements for (NFPA	.50
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Z24.22-1957 †Measurement of Real-Ear Attenuation of Ear Protectors at Threshold, Method for	2.00

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Highways, Safety Code for, with Addenda Z26.1a-1964	3.00
★726.1a-1964 †Addenda to Z26.1-1950, sold separately	1.00
733.1-1961 Installation of Blower and Exhaust Systems for Dust, Stock, and	Vapor
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Z35.1-1959 †Industrial Accident Prevention Signs, Specifications for	2.00
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737 1-1941 +Carbon Moxonoxide. Allowable Concentration of	1.50
Z37.2-1941 †Hydrogen Sulfide, Allowable Concentration of	1.50
Z37.3-1941 †Carbon Disulfide, Allowable Concentration of	1.50
Z37.4-1960 †Benzene, Maximal Acceptable Concentration of	2.00
737.6-1948 †Manganese. Allowable Concentration of	1 .5 0
737.7-1943 †Chromic Acid and Chromates, Allowable Concentration of	1.5 0
737.8-1943 †Mercury, Allowable Concentration of	1.50
737.10-1960 +Xylene. Maximal Acceptable Concentration of	2.00
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tion of	1 .5 0
737 12-1960 +Toluene Maximal Acceptable Concentration of	2.00
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Z41 — Specifications for Protective Occupational Footwear	
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Z41.1-1944 †Men's Safety-Toe Shoes	······)
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Z41.3-1944 †Men's Conductive Shoes Z41.4-1944 †Men's Explosives-Operations (Non-sparking) Shoes	
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Z41.2-1944 †Women's Safety-Toe (Oxford) Shoes	Out of Print
Z41.7-1944 †Women's Safety-Toe (High) Shoes	Out of Print
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	.50
754 2-1958 Industrial Beta-Ray Sources, Safe Design and Use of (NDS Transbook	.20
66-1958) Z66.1-1964 †Minimize Hazards to Children from Residual Surface Coating Materials, Specifications to	.50
Specifications to Z95.1-1963 Oil Burning Equipment, Installation of (NFPA No. 31-1963)	.75
Z95.1-1963 Oil Burning Equipment, installation of (the National States) (UL 727 August-1961, Z96.1-1963 Oil-Fired Central Furnaces, Standards for Safety (UL 727 August-1961,	
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3rd ed) Z106.1-1965 Liquefied Petroleum Gases, Storage and Handling of (NFPA 58-1965)	.75
Z112.1-1965 Portable Fire Extinguishers, Installation of (NFPA No. 10-1965) (Partial	CO
4.4. A #4.4.0 1 10.C.4.\	.60
7110 0 10ce Maintanance and Use of Portable Fire Extinguishers, Practice for the	60
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A110 2.1062 Plumbing Heating and Electrical Systems in Travel Trailers, Installa-	
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B38.1-1955 †Food-Storage Volume and Shelf Area of Automatic Household Refriger-	1 50
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COO 1 1067 Elevible Cord and Fixture Wire. Safety Standard for (OL OZ-March)	
1053\	Print
C33.7-1957 Electrically Heated Pads and Bedding, Safety Standard for (UL 130-	
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C22 11 1964 Flectric Heating Appliances, Safety Standard for (UL 499 June-1962)	.75
C33.12-1964 Electric Space-Heating Equipment, Safety Requirements for (OC 373	
Desember 1062)	1.00
★C33.13-1965 Home-Laundry Equipment, Safety Requirements for (UL 560 May-	00
1063)	.80
*C33.14-1965 Room Air Conditioners, Safety Requirements for (UL 484 December-	.60
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★C33.18-1955 Cord Reels, Requirements for (UL 355 April-1964)	À
ACOD 10.10t5 Flectrically Illuminated Frames (UL 368 FEDIUARY:1907)	
C70 1.1052 Household Automatic Flectric Flatirons, Standard for (NEMA DA 1-1734)	1.00
C71 1.1064 Household Flectric Ranges, Standard for (NEMA EKI-1902)	1.00
C72 1.1949 Household Automatic Electric Storage Type Water Heaters, Standard	
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C91.1·1958 Residential Wiring, Requirements for	.50
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 L12 — Definitions (Including Tolerances) for Filling Materials for 	
Bedding and Upholstery:	
L12.1-1946 †Cotton	
	2.00
L12.2-1946 †Wool L12.4-1946 †Miscellaneous	_,,,
L12.4-1946 TMISCEIIalieous	
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★L14.12-1965 Terms Relating to Textile Materials, Definition of (ASTM D123-65)	1.00
• L22 — Textile Fabrics, Performance Requirements:	icion
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Included:	
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Men's and Boys' Textile Fabrics	
Home Furnishing Fabrics	
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†Volume II (1960 Edition)Out of Print, Under Rev	151011
Test Methods to be Used with the L22 Standards	
• L24 — Institutional Textiles, Performance Requirements for:	
(Part VIII, Test Methods, is a necessary companion volume to any or all of the fol-	
lowing L24 Parts, except Part V and Part VI. Part VIII therefore must be purchased	
with any or all of the following L24 Parts, except Part V and Part VI.) (Special price	
of complete L24-1963 series, \$10.00)	200
L24.1.1-through L24.1.9-1963 †Part I, Institutional Furnishing Fabrics	2.00
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L24.4.1-through L24.4.11-1963 †Part IV, Work Clothes Fabrics	2.50
L24.5.1-1963 †Part V, Permanent Labels, Detachable Tags and Certification of	1 50
Fabrics or Products	1.50
L24.6.1-1963 †Part VI, Definitions of Textile Terms for Institutional Textiles	1.50
L24.7.1-1963 †Part VII, Special Characteristics and Finishes for Institutional Textiles	1.50
†Part VIII, Test Methods to be Used with Parts I, III, IV, and VII	1.50
Photography:	
PH1.28-1957 †Photographic Films for Permanent Records, Specifications for	2.00
★PH1.31-1965 †Brittleness of Photographic Film, Method for Determining the	2.00
PH2.7-1955 †Photographic Exposure Computer	2.00
PH2.12-1961 †General-Purpose Photographic Exposure Meters (Photoelectric Type)	2.50
PH2.15-1964 †Automatic Exposure Controls for Cameras	2.00
PH2.20-1960 †Sensitomere: Exposure of Artificial-Light-Type Color Films, Method	
for the	2.00
PH2.22-1961 †Safety Time of Photographic Darkroom Illumination, Procedure for	
Determining the (Revision of Z38.8.13-1950)	1.00
PH3.13·1958 †Focal Length Marking of Lenses	1.00
PH3.27-1949 (R1957) †Lantern Slide Projectors, Specifications for	1.00
PH3.28-1945 (R1957) +Slidefilm Projectors, Specifications for	1.00
PH3.29-1958 †Apertures and Related Quantities Pertaining to Photographic Lenses,	
Methods of Designating and Measuring	1.00
PH3.31-1958 †Photographic Enlargers, Methods for Testing	1.50
PH3.32-1959 †Exposure-Time Markings for Shutters Used in Still Cameras	1.00
PH3.33-1959 †Aperture Markings for Still Camera Lenses	1.00
PH3.34-1959 †Projectors for Opaque Materials, Specifications for	1.00
*PH3.41-1965 *Slide and Slidefilm Projection, Practice for	2.00
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Methods for	2.00
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PH4.25-1958 †Photographic Laboratory Spring-Driven Timers, Specification for	1.00
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PH4.29-1962 †Manual Processing of Black-and-White Photographic Paper, Methods	1.00
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PH4.30-1962 †Residual Thiosulfate and Thionates in Processed Photographic	
Papers, Method for Determining (Revision of Z38.8.25-1950)	50
PH5.1-1959 †Microfilm Readers for 16mm and 35mm Film on Reels, Specifica-	
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250.7.5-15-40 [Finding and Fiojection Equipment, Methods of Testing	1.00
X2.1.1-1951 †Desks and Tables for General Office Use, Dimensions of	1.00
	1.00
X2.2.1-1955 (R1964) Redesignated and Reaffirmed as X4.4-1955	
X2.4.1-1951 (R1964) Redesignated and Reaffirmed as X4.3-1951	
X2.4.2-1954 †Non-Carbonized, Single-Ply, Adding-Machine Paper Rolls, Specifica-	
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X2.4.3-1956 Ring, Memo and Post Binder Sheet Sizes and Ring and Post Data	.50 1.00
X4.3-1951 (R1964) †Index Cards and Record-Keeping Cards, Size Designation for	1.00
	1.00
X4.4-1955 (R1964) Basic Sheet Sizes and Standard Stock Sizes for Bond Papers and	1.00
Index Bristols (Redesignation of X2.2.1-1955)	.50
• Z21 — Gas-Burning Appliances:	
Domestic Gas Ranges:	
Z21.1.1-1964 Free Standing Units, Volume I, Approval Requirements for, with	
	2.45
Z21.1.1a-1965 Addenda to Z21.1.1-1964, sold separately	
	2.50
Z21.1.2a-1965 Addenda to Z21.1.2-1964, sold separately	2.00
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Z21.2-1949 (R1962) Gas Hose for Portable Gas Appliances, Listing Requirements on	1.00
Z21.5.1-1962 Type I Clothes Dryers, Volume I, Approval Requirements for, with	
Addenda Z21.5.1a-1965	2.20
Z21.5.1a-1965 Addenda to Z21.5.1-1962, sold separately	
Z21.6-1962 Domestic Gas-Fired Incinerators, Approval Requirements for, with	
Addenda Z21.6a-1963 and Addenda Z21.6b-1965	2.55
221.6b-1965 Addenda to 221.6-1962 and 221.6a-1963, sold separately	
7221.8-1965 Domestic Gas Conversion Burners, Requirements for Installation of	.75
	2.00
Z21.11.1-1965 Vented Room Heaters, Approval Requirements for Gas-Fired Room	2.00
	2.00
Z21.11.2-1962 Unvented Room Heaters, Approval Requirements for Gas-Fired Room	
Heaters. Volume II, with Addenda Z21.11.2a-1964 and Addenda Z21.11.2b-	
·	2.65
Z21.11.2a-1964 Addenda to Z21.11.2-1962, sold separately	
Z21.11.2b-1965 Addenda to Z21.11.2-1962 and Addenda Z21.11.2a-1964, sold sepa-	
rately	
Z21.12-1937 (R1963) Draft Hoods, Listing Requirements for	.50
Z21.13-1964 Gas-Fired Steam and Hot Water Boilers, Approval Requirements for,	
	2.30
Z21.13a·1965 Addenda to Z21.13·1964, sold separately	
Z21.16-1964 Gas Unit Heaters, Approval Requirements for, with Addenda Z21.16a-	
1965 Z21.16a-1965 Addenda to Z21.16-1964, sold separately	2.30
(//III) AND ADDENDED TO //IIII-IMPA COMI CANSCRAPS	

Z21.17-1962 Domestic Gas Conversion Burners, Listing Requirements for, with	
Addenda Z21.17a-1964 and Addenda Z21.17b-1964	2.75
Z21.17a-1964 Addenda to Z21.17-1962, sold separately	
★Z21.17b-1965 Addenda to Z21.17-1962, and Addenda Z21.17a-1964, sold separately	
★Z21.19-1965 Refrigerators Using Gas Fuel, Approval Requirements for	2.00
Z21.24-1963 Metal Connectors for Gas Appliances, Listing Requirements for, with	
Addenda Z21.24a-1965	1.25
★Z21.24a-1965 Addenda to Z21.24-1963, sold separately	
★Z21.28-1965 Portable Gas Baking and Roasting Ovens, Approval Requirements for	2.00
Z21.30-1964 Gas Appliances and Gas Piping, Installation Requirements for (NFPA	
No. 54-1964)	.75
Z21.38-1957 (R1962) Installation of Gas Conversion Burners in Domestic Ranges,	
Requirements for	.25
Z21.39-1957 (R1962) Gas Conversion Burners for Domestic Ranges, Listing Re-	
quirements for	2.00
Z21.42-1963 Gas-Fired Illuminating Appliances, Approval Requirements for	1.50
Z21.43-1963 Unvented Gas-Fired Infrared Radiant Heaters, Approval Requirements for, with Addenda Z21.43a-1964 and Addenda Z21.43b-1965	2.40
Z21.43a-1964 Addenda to Z21.43-1963, sold separately	2.40
★Z21.43b-1965 Addenda to Z21.43-1963 and Z21.43a-1964, sold separately	
Z21.44-1963 Gas-Fired Gravity and Fan Type Sealed Combustion System Wall Fur-	
naces, Approval Requirements for, with Addenda Z21.44a-1964 and Addenda	
	2.60
Z21.44a-1964 Addenda to Z21.44-1963, sold separately	
*Z21.44b-1965 Addenda to Z21.44-1963 and Z21.44a-1964, sold separately35	
Z21.45-1964 Flexible Connectors of Other Than All-Metal Construction for Gas	
Appliances, Listing Requirements for, with Addenda Z21.45a-1965	1.60
*Z21.45a-1965 Addenda to Z21.45-1964, sold **eparately	
Z21.46-1964 Gas-Fired Kettles, Steam Cookers and Steam Generators, Approval	
	2.10
★Z21.46a-1965 Addenda to Z21.46-1964, sold separately	
Z21.47-1964 Gas-Fired Gravity and Forced Air Central Furnaces, Approval Require-	
	2.25
★Z21.47a-1965 Addenda to Z21.47-1964, sold separately	
Z21.48-1964 Gas-Fired Gravity and Fan Type Floor Furnaces, Approval Requirements	
	2.25
★Z21.48a-1965 Addenda to Z21.48-1964 , sold separately	
Z21.49-1964 Gas-Fired Gravity and Fan Type Vented Wall Furnaces, Approval Re-	
	2.35
★Z21.49a-1965 Addenda to Z21.49-1964 , sold separately	
Z21.50-1964 Vented Decorative Gas Appliances, Approval Requirements for, with	
	2.20
★Z21. ⓐ 3a-1965 Addenda to Z21.50-1964, sold separately	
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Z26.1-1950 †Safety Glazing Materials for Motor Vehicles Operating on Land High-	
	3.00
Z26.1a-1964 †Addenda to Z26.1-1950, sold separately	
Z60.1-1959 Nursery Stock	.50
Z61.1-1963 †Home Cooking and Baking Utensils, Dimensions, Tolerances, and	
	2.00
Z66.1-1964 †Minimize Hazards to Children from Residual Surface Coating Materials,	
	1.50
	2.00
Z96.1-1963 Oil-Fired Central Furnaces, Standards for Safety (UL 727 August-1961,	
	1.25
★Z112.1-1965 Portable Fire Extinguishers, Installation of (NFPA No. 10-1965) (Partial	
revision of Z112.1-1964)	. 6 0
★Z112.2-1965 Maintenance and Use of Portable Fire Extinguishers, Practice for the	
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